

Anti-small molecules (Chemicals, Antibiotics, Mycotoxins,etc.) antibodies and small molecules competitive antigens (Carrier-coupled antigen, immunogen, hapten-carrier conjugates, BSA-conjugated, OVA-conjugated), competitive ELISA validated

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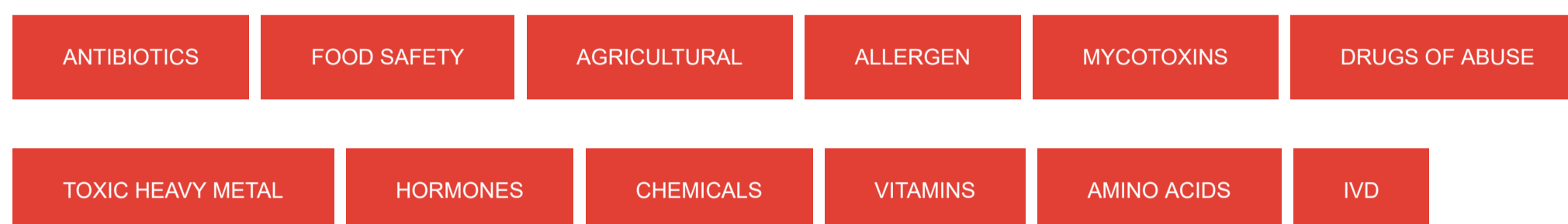
Competitive immunoassay-validated anti-Hapten (small molecules, chemicals) antibody against hapten (small molecules, chemicals) and hapten-carrier conjugated competitive antigens (Carrier-coupled antigen, immunogen, hapten-carrier conjugates, BSA-conjugated, OVA-conjugated).

The anti-Hapten antibodies against haptens had been validated with our hapten-carrier conjugates via competitive ELISA test.

GeneMedi offers paired anti-small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.) antibodies (monoclonal antibody, mab) and small molecules competitive antigens (Carrier-coupled antigen, immunogen, hapten-carrier conjugates, BSA-conjugated, OVA-conjugated) for the rapid test and diagnostics kit of Growth Promoters, Toxic Heavy Metal, Mycotoxins, Nutrients, Food Safety, Pesticides, Drugs of Abuse, Allergen, Antibiotics, Agricultural, Water Contamination and so on.

All our anti-chemicals antibodies and small molecules hapten-carrier conjugates antigens (BSA-conjugated, OVA-conjugated) are suitable for in competitive ELISA, Lateral flow immunoassay (LFIA) and other immunoassays in diagnostics and rapid test kit. The carrier-coupled antigens of small molecules can act as immunogens.

Genemedi supplies Small Molecule Diagnostic for a wide selection of choices (please see below).



[For inquiry please click here to contact us or send email to support@genemedi.net](#)

Antibiotics

Diagnostic antibodies and antigens for the detection of maximum residue limit (MRL) of antibiotics

Antibiotics are used for veterinary purposes almost as soon as they had been developed for human medicine. They are supplemented in the animal feed for growth promotion and treatment of infections, which are important during the development of intensive methods of animal husbandry, as a result there are major hazards that could be posed by antibiotic residues in foods like raw milk, poultry, cattle, porcine, fish and so on. The possible presence of antimicrobial residues (AR) in farm foods poses a risk for consumers such as allergic reactions, toxicity, carcinogenic effects, selection of resistant bacteria, disruption of human normal flora, provoke immunological response and inhibition of the starter culture.

The risk of residue from these foods are higher in developing countries compared to developed one. This might be related with lack of facilities for detection and regulatory bodies that control the drug residues level in foods in the form of maximum residue limits (MRLs). Therefore, to prevent/minimize the risk of antimicrobial residue in milk, different methods of detection of residue to the standard limits level in all food items is possible by chemical methods, microbiological methods and immunological assays. However, Genemedi developed the antigen and antibody to detect the MRL of various antibiotics in the food such as raw milk, poultry, cattle, porcine, fish and so on. Detecting the MRL of different antibiotics from different samples may benefit from ELISA, Lateral flow immunoassay (LFIA), colloidal gold immunochromatographic assay, Chemiluminescent immunoassay (CLIA), turbidimetric inhibition immuno assay (TINIA), immunonephelometry and POCT.

Maximum Residue Limits (MRLs) for Veterinary Drugs in Foods.

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-1	Sulfonamides Residue (SAs) (sulfamethoxazole (SMX), 5-atom-rings)	BSA-conjugated Sulfadoxineresidu Sulfonamides Residue (SAs) (sulfamethoxazole (SMX), 5-atom-rings); OVA-conjugated Sulfadoxineresidu Sulfonamides Residue (SAs) (sulfamethoxazole (SMX), 5-atom-rings)	Anti-Sulfonamides Residue (SAs) (sulfamethoxazole (SMX), 5-atom-rings) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	2-5	
GMP-SMT-2	Sulfonamides Residue (SAs) (6-atom-rings)	BSA-Sulfonamides Residue (SAs) (6-atom-rings); OVA-Sulfonamides Residue (SAs) (6-atom-rings)	Anti-Sulfonamides Residue (SAs) (6-atom-rings) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	2-5	
GMP-SMT-3	Sulfamethazine (SD)	BSA-Sulfamethazine (SD); OVA-Sulfamethazine (SD)	Anti-Sulfamethazine (SD) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	2-5	
GMP-SMT-4	Sulfaquinoxaline (SQX)	BSA-Sulfaquinoxaline (SQX); OVA-Sulfaquinoxaline (SQX)	Anti-Sulfaquinoxaline (SQX) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	1	
GMP-SMT-5	Sulfamethazine (SM2)	BSA-Sulfamethazine (SM2); OVA-Sulfamethazine (SM2)	Anti-Sulfamethazine (SM2) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	2-5	

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-6	Sulfadimethoxine(SMD)	BSA-Sulfadimethoxine(SMD); OVA-Sulfadimethoxine(SMD)	Anti-Sulfadimethoxine(SMD) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	2-3	
GMP-SMT-7	Sulfachloropyrazine	BSA-Sulfachloropyrazine; OVA-Sulfachloropyrazine	Anti-Sulfachloropyrazine mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.2	
GMP-SMT-8	Florfenicol(FF)	BSA-Florfenicol(FF); OVA-Florfenicol(FF)	Anti-Florfenicol(FF) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	5	
GMP-SMT-9	Chloromycetin(CAP)	BSA-Chloromycetin(CAP); OVA-Chloromycetin(CAP)	Anti-Chloromycetin(CAP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.2-0.3	
GMP-SMT-10	Chloramphenicol (TAP)	BSA-Chloramphenicol (TAP); OVA-Chloramphenicol (TAP)	Anti-Chloramphenicol (TAP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.2-0.3	
GMP-SMT-11	Chloramphenicols	BSA-Chloramphenicols; OVA-Chloramphenicols	Anti-Chloramphenicols mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.2-0.4	
GMP-SMT-12	Kanamycin(KAN)	BSA-Kanamycin(KAN); OVA-Kanamycin(KAN)	Anti-Kanamycin(KAN) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	1	
GMP-SMT-13	Gentamicin(GM)	BSA-Gentamicin(GM); OVA-Gentamicin(GM)	Anti-Gentamicin(GM) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.4-0.5	
GMP-SMT-14	Amikacin(AMK)	BSA-Amikacin(AMK); OVA-Amikacin(AMK)	Anti-Amikacin(AMK) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.1-0.2	
GMP-SMT-15	Streptomycin(STR)	BSA-Streptomycin(STR); OVA-Streptomycin(STR)	Anti-Streptomycin(STR) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.4-0.5	
GMP-SMT-16	Apramycin(APM)	BSA-Apramycin(APM); OVA-Apramycin(APM)	Anti-Apramycin(APM) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0	
GMP-SMT-17	Spectinomycin(SPM)	BSA-Spectinomycin(SPM); OVA-Spectinomycin(SPM)	Anti-Spectinomycin(SPM) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	1.5	
GMP-SMT-18	Tobramycin	BSA-Tobramycin; OVA-Tobramycin	Anti-Tobramycin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	5	
GMP-SMT-19	Neomycin(NM)	BSA-Neomycin(NM); OVA-Neomycin(NM)	Anti-Neomycin(NM) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.5	
GMP-SMT-20	Paromomycin	BSA-Paromomycin; OVA-Paromomycin	Anti-Paromomycin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	1	
GMP-SMT-21	Lincomycin(LM)	BSA-Lincomycin(LM); OVA-Lincomycin(LM)	Anti-Lincomycin(LM) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	1	
GMP-SMT-22	Pirlimycin(PIR)	BSA-Pirlimycin(PIR); OVA-Pirlimycin(PIR)	Anti-Pirlimycin(PIR) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	4-5	
GMP-SMT-23	Erythromycin(EM)	BSA-Erythromycin(EM); OVA-Erythromycin(EM)	Anti-Erythromycin(EM) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	5-10	
GMP-SMT-24	Avermectin(AVM)	BSA-Avermectin(AVM); OVA-Avermectin(AVM)	Anti-Avermectin(AVM) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	2	

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GMP-SMT-25	Doramectin(DOR)	BSA-Doramectin(DOR); OVA-Doramectin(DOR)	Anti-Doramectin(DOR) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	2-3	
GMP-SMT-26	Tylosin(TYL)	BSA-Tylosin(TYL); OVA-Tylosin(TYL)	Anti-Tylosin(TYL) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.5	
GMP-SMT-27	Ivermectin (IVM)	BSA-Ivermectin (IVM); OVA-Ivermectin (IVM)	Anti-Ivermectin (IVM) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	3-4	
GMP-SMT-28	Tilmicosin(TIM)	BSA-Tilmicosin(TIM); OVA-Tilmicosin(TIM)	Anti-Tilmicosin(TIM) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.6	
GMP-SMT-29	Tiamulin	BSA-Tiamulin; OVA-Tiamulin	Anti-Tiamulin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	2-3	
GMP-SMT-30	Acetylisovaleryl tylosin tartrate	BSA-Acetylisovaleryl tylosin tartrate; OVA-Acetylisovaleryl tylosin tartrate	Anti-Acetylisovaleryl tylosin tartrate mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	10	
GMP-SMT-31	Kitasamycin	BSA-Kitasamycin; OVA-Kitasamycin	Anti-Kitasamycin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	20	
GMP-SMT-32	Albendazole(ABZ)	BSA-Albendazole(ABZ); OVA-Albendazole(ABZ)	Anti-Albendazole(ABZ) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	9-10	
GMP-SMT-33	Metronidazole	BSA-Metronidazole; OVA-Metronidazole	Anti-Metronidazole mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.6-1	
GMP-SMT-34	4, 4'- Dinitrocarbanilide (DNC)	BSA-4, 4'- Dinitrocarbanilide (DNC); OVA-4, 4'- Dinitrocarbanilide (DNC)	Anti-4, 4'- Dinitrocarbanilide (DNC) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	5	
GMP-SMT-35	Natamycin(NTM)	BSA-Natamycin(NTM); OVA-Natamycin(NTM)	Anti-Natamycin(NTM) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	1	
GMP-SMT-36	Salinomycin(SLM)	BSA-Salinomycin(SLM); OVA-Salinomycin(SLM)	Anti-Salinomycin(SLM) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	4-5	
GMP-SMT-37	Monensi(MON)	BSA-Monensi(MON); OVA-Monensi(MON)	Anti-Monensi(MON) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.4-0.5	
GMP-SMT-38	Vancomycin(VM)	BSA-Vancomycin(VM); OVA-Vancomycin(VM)	Anti-Vancomycin(VM) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.8-1	
GMP-SMT-39	Albendazole metabolite(ABZ)	BSA-Albendazole metabolite(ABZ); OVA-Albendazole metabolite(ABZ)	Anti-Albendazole metabolite(ABZ) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.5	
GMP-SMT-40	Maduramicin	BSA-Maduramicin; OVA-Maduramicin	Anti-Maduramicin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.4-0.5	
GMP-SMT-41	Diclazuril	BSA-Diclazuril; OVA-Diclazuril	Anti-Diclazuril mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	1-1.5	
GMP-SMT-42	Toltrazuril (Methyl Triazine)	BSA-Toltrazuril (Methyl Triazine); OVA-Toltrazuril (Methyl Triazine)	Anti-Toltrazuril (Methyl Triazine) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	1	
GMP-SMT-43	Levamisole	BSA-Levamisole; OVA-Levamisole	Anti-Levamisole mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	1	

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GMP-SMT-44	Mebendazole	BSA-Mebendazole; OVA-Mebendazole	Anti-Mebendazole mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	5	
GMP-SMT-45	Triclabendazole	BSA-Triclabendazole; OVA-Triclabendazole	Anti-Triclabendazole mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	5	
GMP-SMT-46	Clopidol	BSA-Clopidol; OVA-Clopidol	Anti-Clopidol mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	15	
GMP-SMT-47	Amprolium	BSA-Amprolium; OVA-Amprolium	Anti-Amprolium mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	30	
GMP-SMT-48	tetracycline	BSA-tetracycline; OVA-tetracycline	Anti-tetracycline mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.3-0.5	
GMP-SMT-49	Oxytetracycline(OTCs)	BSA-Oxytetracycline(OTCs); OVA-Oxytetracycline(OTCs)	Anti-Oxytetracycline(OTCs) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.3-0.5	
GMP-SMT-50	Chlortetracycline	BSA-Chlortetracycline; OVA-Chlortetracycline	Anti-Chlortetracycline mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.3-0.5	
GMP-SMT-51	Doxycycline	BSA-Doxycycline; OVA-Doxycycline	Anti-Doxycycline mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.3-0.5	
GMP-SMT-52	Tetracyclines	BSA-Tetracyclines; OVA-Tetracyclines	Anti-Tetracyclines mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.3-0.5	
GMP-SMT-53	Norfloxacine	BSA-Norfloxacine; OVA-Norfloxacine	Anti-Norfloxacine mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.3-0.5	
GMP-SMT-54	Ciprofloxacin(CIP)	BSA-Ciprofloxacin(CIP); OVA-Ciprofloxacin(CIP)	Anti-Ciprofloxacin(CIP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.3-0.5	
GMP-SMT-55	Sarafloxacin(SAR)	BSA-Sarafloxacin(SAR); OVA-Sarafloxacin(SAR)	Anti-Sarafloxacin(SAR) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.3-0.5	
GMP-SMT-56	Ofloxacin(OFX)	BSA-Ofloxacin(OFX); OVA-Ofloxacin(OFX)	Anti-Ofloxacin(OFX) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.5-1	
GMP-SMT-57	Quinolone	BSA-Quinolone; OVA-Quinolone	Anti-Quinolone mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	约为0.5	
GMP-SMT-58	Enrofloxacin(ENOR)	BSA-Enrofloxacin(ENOR); OVA-Enrofloxacin(ENOR)	Anti-Enrofloxacin(ENOR) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.1-0.3	
GMP-SMT-59	Danofloxacin	BSA-Danofloxacin; OVA-Danofloxacin	Anti-Danofloxacin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.3-0.5	
GMP-SMT-60	Difloxacin	BSA-Difloxacin; OVA-Difloxacin	Anti-Difloxacin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.3-0.5	
GMP-SMT-61	Quinolones	BSA-Quinolones; OVA-Quinolones	Anti-Quinolones mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.5	
GMP-SMT-62	Ampicillin (Ampicillin, Amoxicillin, AMP)	BSA-Ampicillin (Ampicillin, Amoxicillin, AMP); OVA-Ampicillin (Ampicillin, Amoxicillin, AMP)	Anti-Ampicillin (Ampicillin, Amoxicillin, AMP) mouse monoclonal antibody; Recombinant beta-lactams sensor protein	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.1-0.2	

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GMP-SMT-63	Penicillin G	BSA-Penicillin G; OVA-Penicillin G	Anti-Penicillin G mouse monoclonal antibody; Recombinant beta-lactams sensor protein	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.1-0.2	
GMP-SMT-64	Ceftiofur(CEF)	BSA-Ceftiofur(CEF); OVA-Ceftiofur(CEF)	Anti-Ceftiofur(CEF) mouse monoclonal antibody; Recombinant beta-lactams sensor protein	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	4-5	
GMP-SMT-65	Cefquinome(CEQ)	BSA-Cefquinome(CEQ); OVA-Cefquinome(CEQ)	Anti-Cefquinome(CEQ) mouse monoclonal antibody; Recombinant beta-lactams sensor protein	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	1-2	
GMP-SMT-66	Cephalosporin(CEP)	BSA-Cephalosporin(CEP); OVA-Cephalosporin(CEP)	Anti-Cephalosporin(CEP) mouse monoclonal antibody; Recombinant beta-lactams sensor protein	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	1-2	
GMP-SMT-67	Cephalexin(CEX)	BSA-Cephalexin(CEX); OVA-Cephalexin(CEX)	Anti-Cephalexin(CEX) mouse monoclonal antibody; Recombinant beta-lactams sensor protein	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.4-0.5	
GMP-SMT-68	Hygromycin B(HMB)	BSA-Hygromycin B(HMB); OVA-Hygromycin B(HMB)	Anti-Hygromycin B(HMB) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	1-2	
GMP-SMT-69	Bacitracin(BCT)	BSA-Bacitracin(BCT); OVA-Bacitracin(BCT)	Anti-Bacitracin(BCT) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	4-5	
GMP-SMT-70	Polymyxin B(PMB)	BSA-Polymyxin B(PMB); OVA-Polymyxin B(PMB)	Anti-Polymyxin B(PMB) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	10-20	
GMP-SMT-71	Cyclosporin A	BSA-Cyclosporin A; OVA-Cyclosporin A	Anti-Cyclosporin A mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.1-0.2	
GMP-SMT-72	metoclopramide	BSA-metoclopramide; OVA-metoclopramide	Anti-metoclopramide mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.25	
GMP-SMT-73	Trimethoprim(TMP)	BSA-Trimethoprim(TMP); OVA-Trimethoprim(TMP)	Anti-Trimethoprim(TMP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.2	
GMP-SMT-74	Polymyxin E(PME)	BSA-Polymyxin E(PME); OVA-Polymyxin E(PME)	Anti-Polymyxin E(PME) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.5	
GMP-SMT-75	Cloxacillin	BSA-Cloxacillin; OVA-Cloxacillin	Anti-Cloxacillin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	15	
GMP-SMT-76	Oxacillin	BSA-Oxacillin; OVA-Oxacillin	Anti-Oxacillin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	20	

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Food safety

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-77	Nitrofurazone metabolite (CPSEM)	BSA-Nitrofurazone metabolite (CPSEM); OVA-Nitrofurazone metabolite (CPSEM)	Anti-Nitrofurazone metabolite (CPSEM) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.2	
GMP-SMT-78	Nitrofurantoin metabolite (CPAHD)	BSA-Nitrofurantoin metabolite (CPAHD); OVA-Nitrofurantoin metabolite (CPAHD)	Anti-Nitrofurantoin metabolite (CPAHD) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.5	

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-79	Furazolidone metabolite (CPAOZ)	BSA-Furazolidone metabolite (CPAOZ); OVA-Furazolidone metabolite (CPAOZ)	Anti-Furazolidone metabolite (CPAOZ) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.5	
GMP-SMT-80	Furaltadone metabolite (CPAMOZ)	BSA-Furaltadone metabolite (CPAMOZ); OVA-Furaltadone metabolite (CPAMOZ)	Anti-Furaltadone metabolite (CPAMOZ) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.3	
GMP-SMT-81	Malachite Green(MG)	BSA-Malachite Green(MG); OVA-Malachite Green(MG)	Anti-Malachite Green(MG) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.2	
GMP-SMT-82	Leucomalachite(LMG)	BSA-Leucomalachite(LMG); OVA-Leucomalachite(LMG)	Anti-Leucomalachite(LMG) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.5	
GMP-SMT-83	Beta-lactamase(Penicillinase)	BSA-Beta-lactamase(Penicillinase); OVA-Beta-lactamase(Penicillinase)	Anti-Beta-lactamase(Penicillinase) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	/	
GMP-SMT-84	Melamine(MEL)	BSA-Melamine(MEL); OVA-Melamine(MEL)	Anti-Melamine(MEL) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.5	
GMP-SMT-85	Benzoic Acid(BZA)	BSA-Benzoic Acid(BZA); OVA-Benzoic Acid(BZA)	Anti-Benzoic Acid(BZA) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	1-2	
GMP-SMT-86	Alkaline Phosphatase (AP)	BSA-Alkaline Phosphatase (AP); OVA-Alkaline Phosphatase (AP)	Anti-Alkaline Phosphatase (AP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	/	
GMP-SMT-87	Tartrazine(TAR)	BSA-Tartrazine(TAR); OVA-Tartrazine(TAR)	Anti-Tartrazine(TAR) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.1	
GMP-SMT-88	Erythrosin(ERY)	BSA-Erythrosin(ERY); OVA-Erythrosin(ERY)	Anti-Erythrosin(ERY) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	4-5	
GMP-SMT-89	Basic Orange (BO/CSD)	BSA-Basic Orange (BO/CSD); OVA-Basic Orange (BO/CSD)	Anti-Basic Orange (BO/CSD) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	4-5	
GMP-SMT-90	Sudan I(Su I)	BSA-Sudan I(Su I); OVA-Sudan I(Su I)	Anti-Sudan I(Su I) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	2	
GMP-SMT-91	Rhodamine B	BSA-Rhodamine B; OVA-Rhodamine B	Anti-Rhodamine B mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.5	
GMP-SMT-92	Capsaicin	BSA-Capsaicin; OVA-Capsaicin	Anti-Capsaicin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.5-1	
GMP-SMT-132	Ractopamine(RCT)	BSA-Ractopamine(RCT); OVA-Ractopamine(RCT)	Anti-Ractopamine(RCT) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.1	
GMP-SMT-133	Phenylethylamine(PEA)	BSA-Phenylethylamine(PEA); OVA-Phenylethylamine(PEA)	Anti-Phenylethylamine(PEA) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.3-0.4	
GMP-SMT-134	Salbutamol(SAL)	BSA-Salbutamol(SAL); OVA-Salbutamol(SAL)	Anti-Salbutamol(SAL) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.2-0.25	
GMP-SMT-135	Brombuterol(BL)	BSA-Brombuterol(BL); OVA-Brombuterol(BL)	Anti-Brombuterol(BL) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.1-0.2	
GMP-SMT-136	Bambuterol	BSA-Bambuterol; OVA-Bambuterol	Anti-Bambuterol mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.4-0.5	

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-137	Clorprenaline(CLP)	BSA-Clorprenaline(CLP); OVA-Clorprenaline(CLP)	Anti-Clorprenaline(CLP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	4-5	
GMP-SMT-138	CIMATEROL	BSA-CIMATEROL; OVA-CIMATEROL	Anti-CIMATEROL mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.3-0.4	
GMP-SMT-139	Chlorpromazine	BSA-Chlorpromazine; OVA-Chlorpromazine	Anti-Chlorpromazine mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.2-0.5	
GMP-SMT-140	Cyproheptadine	BSA-Cyproheptadine; OVA-Cyproheptadine	Anti-Cyproheptadine mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.1-0.2	
GMP-SMT-141	clonidine	BSA-clonidine; OVA-clonidine	Anti-clonidine mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.3-0.5	
GMP-SMT-142	Olaquinox(OLA)	BSA-Olaquinox(OLA); OVA-Olaquinox(OLA)	Anti-Olaquinox(OLA) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.8-1	
GMP-SMT-143	Olaquinox metabolite(MQCA)	BSA-Olaquinox metabolite(MQCA); OVA-Olaquinox metabolite(MQCA)	Anti-Olaquinox metabolite(MQCA) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	1-2	

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Agricultural

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-93	Imidacloprid(ICP)	BSA-Imidacloprid(ICP); OVA-Imidacloprid(ICP)	Anti-Imidacloprid(ICP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.2-0.3	
GMP-SMT-94	Carbendazim(CBD)	BSA-Carbendazim(CBD); OVA-Carbendazim(CBD)	Anti-Carbendazim(CBD) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	1	
GMP-SMT-95	Chlorothalonil(CTL)	BSA-Chlorothalonil(CTL); OVA-Chlorothalonil(CTL)	Anti-Chlorothalonil(CTL) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	2-3	
GMP-SMT-96	Methyl parathion (MP)	BSA-Methyl parathion (MP); OVA-Methyl parathion (MP)	Anti-Methyl parathion (MP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.2-0.3	
GMP-SMT-97	Chlorpyrifos(CPF)	BSA-Chlorpyrifos(CPF); OVA-Chlorpyrifos(CPF)	Anti-Chlorpyrifos(CPF) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	5-6	
GMP-SMT-98	Carbaryl(CBR)	BSA-Carbaryl(CBR); OVA-Carbaryl(CBR)	Anti-Carbaryl(CBR) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	2-3	
GMP-SMT-99	Acetochlor(ATC)	BSA-Acetochlor(ATC); OVA-Acetochlor(ATC)	Anti-Acetochlor(ATC) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	4-5	
GMP-SMT-100	Acetamiprid(AAP)	BSA-Acetamiprid(AAP); OVA-Acetamiprid(AAP)	Anti-Acetamiprid(AAP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	2-3	
GMP-SMT-101	Nitenpyram(NIT)	BSA-Nitenpyram(NIT); OVA-Nitenpyram(NIT)	Anti-Nitenpyram(NIT) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	2-3	

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-102	Carbofuran(CAR)	BSA-Carbofuran(CAR); OVA-Carbofuran(CAR)	Anti-Carbofuran(CAR) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.1-0.3	
GMP-SMT-103	Aldicarb(ADC)	BSA-Aldicarb(ADC); OVA-Aldicarb(ADC)	Anti-Aldicarb(ADC) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.1-0.3	
GMP-SMT-104	Fenprothrin(FPP)	BSA-Fenprothrin(FPP); OVA-Fenprothrin(FPP)	Anti-Fenprothrin(FPP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	3-5	
GMP-SMT-105	Isoprocarb	BSA-Isoprocarb; OVA-Isoprocarb	Anti-Isoprocarb mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	1-2	
GMP-SMT-106	Fipronil	BSA-Fipronil ; OVA-Fipronil	Anti-Fipronil mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.6	
GMP-SMT-107	2, 4, 5-Trichlorophenoxyacetic acid(2, 4, 5-T)	BSA-2, 4, 5-Trichlorophenoxyacetic acid(2, 4, 5-T); OVA-2, 4, 5-Trichlorophenoxyacetic acid(2, 4, 5-T)	Anti-2, 4, 5-Trichlorophenoxyacetic acid(2, 4, 5-T) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	3-5	
GMP-SMT-108	6-Benzylaminopurine (6-BA)	BSA-6-Benzylaminopurine (6-BA); OVA-6-Benzylaminopurine (6-BA)	Anti-6-Benzylaminopurine (6-BA) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	2-3	
GMP-SMT-109	Paclobutrazol(PBZ)	BSA-Paclobutrazol(PBZ); OVA-Paclobutrazol(PBZ)	Anti-Paclobutrazol(PBZ) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	4-5	
GMP-SMT-110	Paraquat(PQ)	BSA-Paraquat(PQ); OVA-Paraquat(PQ)	Anti-Paraquat(PQ) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.4-0.5	
GMP-SMT-111	Aeremectin	BSA-Aeremectin; OVA-Aeremectin	Anti-Aeremectin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.2-0.3	
GMP-SMT-112	Metalaxyl	BSA-Metalaxyl; OVA-Metalaxyl	Anti-Metalaxyl mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	1	
GMP-SMT-113	Organophosphorus	BSA-Organophosphorus; OVA-Organophosphorus	Anti-Organophosphorus mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	1	
GMP-SMT-114	Carbamate	BSA-Carbamate; OVA-Carbamate	Anti-Carbamate mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	1	
GMP-SMT-115	Thiamethoxazine	BSA-Thiamethoxazine; OVA-Thiamethoxazine	Anti-Thiamethoxazine mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.6	
GMP-SMT-116	Thiamethoxan	BSA-Thiamethoxan; OVA-Thiamethoxan	Anti-Thiamethoxan mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	1	
GMP-SMT-117	Thiamethoxlin	BSA-Thiamethoxlin; OVA-Thiamethoxlin	Anti-Thiamethoxlin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.6	
GMP-SMT-118	Triadimefon	BSA-Triadimefon; OVA-Triadimefon	Anti-Triadimefon mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	1	
GMP-SMT-119	Triadimenol	BSA-Triadimenol; OVA-Triadimenol	Anti-Triadimenol mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	2	
GMP-SMT-120	Bifenthrin	BSA-Bifenthrin; OVA-Bifenthrin	Anti-Bifenthrin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	5-10	

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-121	Cypermethrin	BSA-Cypermethrin; OVA-Cypermethrin	Anti-Cypermethrin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	3-5	

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Allergen

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-122	Ovalbumin(OVA)	BSA-Ovalbumin(OVA); OVA-Ovalbumin(OVA)	Anti-Ovalbumin(OVA) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	/	
GMP-SMT-123	Peanut allergen Ara H1(Arah1)	BSA-Peanut allergen Ara H1(Arah1); OVA-Peanut allergen Ara H1(Arah1)	Anti-Peanut allergen Ara H1(Arah1) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.4-0.5	
GMP-SMT-124	Peanut agglutinin(PNA)	BSA-Peanut agglutinin(PNA); OVA-Peanut agglutinin(PNA)	Anti-Peanut agglutinin(PNA) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.4-0.5	
GMP-SMT-125	Cow casein	BSA-Cow casein; OVA-Cow casein	Anti-Cow casein mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	/	
GMP-SMT-126	Bovine serum albumin(BSA)	BSA-Bovine serum albumin(BSA); OVA-Bovine serum albumin(BSA)	Anti-Bovine serum albumin(BSA) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	/	
GMP-SMT-127	Human serum albumin(HSA)	BSA-Human serum albumin(HSA); OVA-Human serum albumin(HSA)	Anti-Human serum albumin(HSA) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	/	
GMP-SMT-128	Gliadin(GD)	BSA-Gliadin(GD); OVA-Gliadin(GD)	Anti-Gliadin(GD) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	LOD 10	
GMP-SMT-129	Parvalbumin(PVA)	BSA-Parvalbumin(PVA); OVA-Parvalbumin(PVA)	Anti-Parvalbumin(PVA) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	LOD 20	
GMP-SMT-130	Gossypol(GOS)	BSA-Gossypol(GOS); OVA-Gossypol(GOS)	Anti-Gossypol(GOS) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	50	
GMP-SMT-131	Clenbuterol(CL)	BSA-Clenbuterol(CL); OVA-Clenbuterol(CL)	Anti-Clenbuterol(CL) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.1	
GMP-SMT-103	Aldicarb(ADC)	BSA-Aldicarb(ADC); OVA-Aldicarb(ADC)	Anti-Aldicarb(ADC) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.1-0.3	
GMP-SMT-104	Fenproprathrin(FPP)	BSA-Fenproprathrin(FPP); OVA-Fenproprathrin(FPP)	Anti-Fenproprathrin(FPP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	3-5	
GMP-SMT-105	Isoprocarb	BSA-Isoprocarb; OVA-Isoprocarb	Anti-Isoprocarb mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	1-2	
GMP-SMT-106	Fipronil	BSA-Fipronil ; OVA-Fipronil	Anti-Fipronil mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.6	
GMP-SMT-107	2, 4, 5-Trichlorophenoxyacetic acid(2, 4, 5-T)	BSA-2, 4, 5-Trichlorophenoxyacetic acid(2, 4, 5-T); OVA-2, 4, 5-Trichlorophenoxyacetic acid(2, 4, 5-T)	Anti-2, 4, 5-Trichlorophenoxyacetic acid(2, 4, 5-T) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	3-5	

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-108	6-Benzylaminopurine (6-BA)	BSA-6-Benzylaminopurine (6-BA); OVA-6-Benzylaminopurine (6-BA)	Anti-6-Benzylaminopurine (6-BA) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	2-3	
GMP-SMT-109	Paclobutrazol(PBZ)	BSA-Paclobutrazol(PBZ); OVA-Paclobutrazol(PBZ)	Anti-Paclobutrazol(PBZ) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	4-5	
GMP-SMT-110	Paraquat(PQ)	BSA-Paraquat(PQ); OVA-Paraquat(PQ)	Anti-Paraquat(PQ) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.4-0.5	
GMP-SMT-111	Avermectin	BSA-Avermectin; OVA-Avermectin	Anti-Avermectin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.2-0.3	
GMP-SMT-112	Metalaxyl	BSA-Metalaxyl; OVA-Metalaxyl	Anti-Metalaxyl mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	1	
GMP-SMT-113	Organophosphorus	BSA-Organophosphorus; OVA-Organophosphorus	Anti-Organophosphorus mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	1	
GMP-SMT-114	Carbamate	BSA-Carbamate; OVA-Carbamate	Anti-Carbamate mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	1	
GMP-SMT-115	Thiamethoxazine	BSA-Thiamethoxazine; OVA-Thiamethoxazine	Anti-Thiamethoxazine mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.6	
GMP-SMT-116	Thiamethoxan	BSA-Thiamethoxan; OVA-Thiamethoxan	Anti-Thiamethoxan mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	1	
GMP-SMT-117	Thiamethoxlin	BSA-Thiamethoxlin; OVA-Thiamethoxlin	Anti-Thiamethoxlin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.6	
GMP-SMT-118	Triadimefon	BSA-Triadimefon; OVA-Triadimefon	Anti-Triadimefon mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	1	
GMP-SMT-119	Triadimenol	BSA-Triadimenol; OVA-Triadimenol	Anti-Triadimenol mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	2	
GMP-SMT-120	Bifenthrin	BSA-Bifenthrin; OVA-Bifenthrin	Anti-Bifenthrin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	5-10	
GMP-SMT-121	Cypermethrin	BSA-Cypermethrin; OVA-Cypermethrin	Anti-Cypermethrin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	3-5	

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Mycotoxins

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-144	Aflatoxin B1(B1)	BSA-Aflatoxin B1(B1); OVA-Aflatoxin B1(B1)	Anti-Aflatoxin B1(B1) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.1	
GMP-SMT-145	Aflatoxin M1(M1)	BSA-Aflatoxin M1(M1); OVA-Aflatoxin M1(M1)	Anti-Aflatoxin M1(M1) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.1	

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-146	Total aflatoxin(AFT)	BSA-Total aflatoxin(AFT); OVA-Total aflatoxin(AFT)	Anti-Total aflatoxin(AFT) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.1	
GMP-SMT-147	Ochratoxin A(OTA)	BSA-Ochratoxin A(OTA); OVA-Ochratoxin A(OTA)	Anti-Ochratoxin A(OTA) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.1-0.2	
GMP-SMT-148	Zearalenone / Zearalenol	BSA-Zearalenone / Zearalenol; OVA-Zearalenone / Zearalenol	Anti-Zearalenone / Zearalenol mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.5-2 0.3-0.5	
GMP-SMT-149	Fumonisin B1 (Aspergillus fumigatus)	BSA-Fumonisin B1 (Aspergillus fumigatus); OVA-Fumonisin B1 (Aspergillus fumigatus)	Anti-Fumonisin B1 (Aspergillus fumigatus) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	2-3	
GMP-SMT-150	T-2 toxin(T-2)	BSA-T-2 toxin(T-2); OVA-T-2 toxin(T-2)	Anti-T-2 toxin(T-2) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.1	
GMP-SMT-151	Vomitoxin	BSA-Vomitoxin; OVA-Vomitoxin	Anti-Vomitoxin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	30	
GMP-SMT-152	citrinin	BSA-citrinin; OVA-citrinin	Anti-citrinin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.6-0.8	
GMP-SMT-153	Sterigmatocystin(STG)	BSA-Sterigmatocystin(STG); OVA-Sterigmatocystin(STG)	Anti-Sterigmatocystin(STG) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.1	
GMP-SMT-154	Alternariol(AOH)	BSA-Alternariol(AOH); OVA-Alternariol(AOH)	Anti-Alternariol(AOH) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.9-1	
GMP-SMT-155	Ricin	BSA-Ricin; OVA-Ricin	Anti-Ricin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.6-2	
GMP-SMT-156	Microcystin LR(MC-LR)	BSA-Microcystin LR(MC-LR); OVA-Microcystin LR(MC-LR)	Anti-Microcystin LR(MC-LR) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.1-0.2	
GMP-SMT-157	Diphtheria toxin	BSA-Diphtheria toxin; OVA-Diphtheria toxin	Anti-Diphtheria toxin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.1-0.2	
GMP-SMT-158	Cholera toxin	BSA-Cholera toxin; OVA-Cholera toxin	Anti-Cholera toxin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.6-2	
GMP-SMT-159	Botulinum Toxin A/B/D/E(BTX A/B/D/E)	BSA-Botulinum Toxin A/B/D/E(BTX A/B/D/E); OVA-Botulinum Toxin A/B/D/E(BTX A/B/D/E)	Anti-Botulinum Toxin A/B/D/E(BTX A/B/D/E) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.6-2	
GMP-SMT-160	Escherichia coli(E. coli) enterotoxin A/B	BSA-Escherichia coli(E. coli) enterotoxin A/B; OVA-Escherichia coli(E. coli) enterotoxin A/B	Anti-Escherichia coli(E. coli) enterotoxin A/B mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.6-2	
GMP-SMT-161	Patulin(PAT)	BSA-Patulin(PAT); OVA-Patulin(PAT)	Anti-Patulin(PAT) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	2	
GMP-SMT-162	Staphylococcus aureus enterotoxin A/B//G	BSA-Staphylococcus aureus enterotoxin A/B//G; OVA-Staphylococcus aureus enterotoxin A/B//G	Anti-Staphylococcus aureus enterotoxin A/B//G mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.9-1	
GMP-SMT-163	Tetanus toxin	BSA-Tetanus toxin; OVA-Tetanus toxin	Anti-Tetanus toxin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.9-1	
GMP-SMT-164	Diphtheria toxin, A-subunit	BSA-Diphtheria toxin, A-subunit; OVA-Diphtheria toxin, A-subunit	Anti-Diphtheria toxin, A-subunit mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.9-1	

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-165	gibberellin	BSA-gibberellin; OVA-gibberellin	Anti-gibberellin rabbit polyclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.9-1	
GMP-SMT-166	patulin	BSA-patulin; OVA-patulin	Anti-patulin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.5-1	
GMP-SMT-167	tetrodotoxin(TTX)	BSA-tetrodotoxin(TTX); OVA-tetrodotoxin(TTX)	Anti-tetrodotoxin(TTX) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.5-1	

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Drugs of Abuse

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-168	Ribavirin(RBV)	BSA-Ribavirin(RBV); OVA-Ribavirin(RBV)	Anti-Ribavirin(RBV) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	7-8	
GMP-SMT-169	Amantadine(AM)	BSA-Amantadine(AM); OVA-Amantadine(AM)	Anti-Amantadine(AM) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	10	
GMP-SMT-197	Tolfenamicacid	BSA-Tolfenamicacid; OVA-Tolfenamicacid	Anti-Tolfenamicacid mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	2	
GMP-SMT-198	Carprofen	BSA-Carprofen; OVA-Carprofen	Anti-Carprofen mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	1	
GMP-SMT-199	Flunixin meglumine	BSA-Flunixin meglumine; OVA-Flunixin meglumine	Anti-Flunixin meglumine mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	1	
GMP-SMT-201	Metamizole	BSA-Metamizole ; OVA-Metamizole	Anti-Metamizole goat polyclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	2	
GMP-SMT-202	Nitrazepam, Clonazepam(CZP)	BSA-Nitrazepam, Clonazepam(CZP); OVA-Nitrazepam, Clonazepam(CZP)	Anti-Nitrazepam, Clonazepam(CZP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.9-1	
GMP-SMT-203	Diazepam(DZP)	BSA-Diazepam(DZP); OVA-Diazepam(DZP)	Anti-Diazepam(DZP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.9-1	
GMP-SMT-204	Antipyrine(AP)	BSA-Antipyrine(AP); OVA-Antipyrine(AP)	Anti-Antipyrine(AP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	3	
GMP-SMT-205	Indomethacin	BSA-Indomethacin; OVA-Indomethacin	Anti-Indomethacin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	1	
GMP-SMT-206	melloxacan	BSA-melloxacan; OVA-melloxacan	Anti-melloxacan mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	1	
GMP-SMT-207	Hydrochlorothiazide(DCT)	BSA-Hydrochlorothiazide(DCT); OVA-Hydrochlorothiazide(DCT)	Anti-Hydrochlorothiazide(DCT) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.1-0.2	
GMP-SMT-208	Amlodipine(ADP)	BSA-Amlodipine(ADP); OVA-Amlodipine(ADP)	Anti-Amlodipine(ADP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	2-2.5	

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-209	Sildenafil(SDN)	BSA-Sildenafil(SDN); OVA-Sildenafil(SDN)	Anti-Sildenafil(SDN) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;Lateral flow immunoassay (LFIA);	0.4-0.5	
GMP-SMT-223	Amphetamines (AMP)	BSA-Amphetamines (AMP); OVA-Amphetamines (AMP)	Anti-Amphetamines (AMP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	
GMP-SMT-224	Barbital (BAR)	BSA-Barbital (BAR); OVA-Barbital (BAR)	Anti-Barbital (BAR) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	
GMP-SMT-225	Buprenorphine (Bup)	BSA-Buprenorphine (Bup); OVA-Buprenorphine (Bup)	Anti-Buprenorphine (Bup) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	
GMP-SMT-226	Benzoditezite (BZO)	BSA-Benzoditezite (BZO); OVA-Benzoditezite (BZO)	Anti-Benzoditezite (BZO) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	
GMP-SMT-227	Cocaine (COC)	BSA-Cocaine (COC); OVA-Cocaine (COC)	Anti-Cocaine (COC) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	
GMP-SMT-228	Cotinine (COT)	BSA-Cotinine (COT); OVA-Cotinine (COT)	Anti-Cotinine (COT) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	
GMP-SMT-229	Methadone metabolites (EDDP)	BSA-Methadone metabolites (EDDP); OVA-Methadone metabolites (EDDP)	Anti-Methadone metabolites (EDDP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	
GMP-SMT-230	Methadone (MTD)	BSA-Methadone (MTD); OVA-Methadone (MTD)	Anti-Methadone (MTD) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	
GMP-SMT-231	Ethyl glucuronide (EtG)	BSA-Ethyl glucuronide (EtG); OVA-Ethyl glucuronide (EtG)	Anti-Ethyl glucuronide (EtG) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	
GMP-SMT-232	Fentanyl (FEN)	BSA-Fentanyl (FEN); OVA-Fentanyl (FEN)	Anti-Fentanyl (FEN) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	
GMP-SMT-233	Synthetic cannabinoid (K2)	BSA-Synthetic cannabinoid (K2); OVA-Synthetic cannabinoid (K2)	Anti-Synthetic cannabinoid (K2) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	
GMP-SMT-234	Ketamine (KET)	BSA-Ketamine (KET); OVA-Ketamine (KET)	Anti-Ketamine (KET) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	
GMP-SMT-235	3,4-Methylenedioxy methamphetamine (MDMA)	BSA-3,4-Methylenedioxy methamphetamine (MDMA); OVA-3,4-Methylenedioxy methamphetamine (MDMA)	Anti-3,4-Methylenedioxy methamphetamine (MDMA) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	
GMP-SMT-236	Methamphetamine (MET)	BSA-Methamphetamine (MET); OVA-Methamphetamine (MET)	Anti-Methamphetamine (MET) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	
GMP-SMT-237	Morphine (MOP)	BSA-Morphine (MOP); OVA-Morphine (MOP)	Anti-Morphine (MOP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	
GMP-SMT-238	Methaqualone (MQL)	BSA-Methaqualone (MQL); OVA-Methaqualone (MQL)	Anti-Methaqualone (MQL) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	
GMP-SMT-239	Opiorphin (OPI)	BSA-Opiorphin (OPI); OVA-Opiorphin (OPI)	Anti-Opiorphin (OPI) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	
GMP-SMT-240	Oxycodone (OXY)	BSA-Oxycodone (OXY); OVA-Oxycodone (OXY)	Anti-Oxycodone (OXY) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-241	Propoxyphene (PPX)	BSA-Propoxyphene (PPX); OVA-Propoxyphene (PPX)	Anti-Propoxyphene (PPX) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	
GMP-SMT-242	Phencyclidine (PCP)	BSA-Phencyclidine (PCP); OVA-Phencyclidine (PCP)	Anti-Phencyclidine (PCP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	
GMP-SMT-243	Tricyclic antidepressants (TCA)	BSA-Tricyclic antidepressants (TCA); OVA-Tricyclic antidepressants (TCA)	Anti-Tricyclic antidepressants (TCA) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	
GMP-SMT-244	Tetrahydrocannabinol (THC)	BSA-Tetrahydrocannabinol (THC); OVA-Tetrahydrocannabinol (THC)	Anti-Tetrahydrocannabinol (THC) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	
GMP-SMT-245	Tramadol (TRA)	BSA-Tramadol (TRA); OVA-Tramadol (TRA)	Anti-Tramadol (TRA) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody;	TBD	

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Toxic Heavy Metal

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-170	Cadmium (Cd)	BSA-Cadmium (Cd); OVA-Cadmium (Cd)	Anti-Cadmium (Cd) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	1-3	
GMP-SMT-171	Lead(Pb)	BSA-Lead(Pb); OVA-Lead(Pb)	Anti-Lead(Pb) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	1-3	
GMP-SMT-172	Mercury(Hg)	BSA-Mercury(Hg); OVA-Mercury(Hg)	Anti-Mercury(Hg) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	1-3	
GMP-SMT-173	Methyl Mercury Chloride (CH ₃ HgCl)	BSA-Methyl Mercury Chloride (CH ₃ HgCl); OVA-Methyl Mercury Chloride (CH ₃ HgCl)	Anti-Methyl Mercury Chloride (CH ₃ HgCl) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	23-25	
GMP-SMT-174	Copper(Cu)	BSA-Copper(Cu); OVA-Copper(Cu)	Anti-Copper(Cu) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	4-5	
GMP-SMT-175	Chromium(Cr)	BSA-Chromium(Cr); OVA-Chromium(Cr)	Anti-Chromium(Cr) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	8-10	

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Hormones

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-176	Dexamethasone(DEX)	BSA-Dexamethasone(DEX); OVA-Dexamethasone(DEX)	Anti-Dexamethasone(DEX) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	1-3	
GMP-SMT-177	Calcitonin	BSA-Calcitonin; OVA-Calcitonin	Anti-Calcitonin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	1-3	

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-178	Cortisol	BSA-Cortisol; OVA-Cortisol	Anti-Cortisol mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	1-3	
GMP-SMT-179	Testosterone(T)	BSA-Testosterone(T); OVA-Testosterone(T)	Anti-Testosterone(T) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	23-25	
GMP-SMT-180	Prostaglandin(PG)	BSA-Prostaglandin(PG); OVA-Prostaglandin(PG)	Anti-Prostaglandin(PG) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	4-5	
GMP-SMT-181	Erythropoetin(EPO)	BSA-Erythropoetin(EPO); OVA-Erythropoetin(EPO)	Anti-Erythropoetin(EPO) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	8-10	
GMP-SMT-182	Progesterone(P)	BSA-Progesterone(P); OVA-Progesterone(P)	Anti-Progesterone(P) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.25-0.5	
GMP-SMT-183	uteinizing hormone(LH)	BSA-uteinizing hormone(LH); OVA-uteinizing hormone(LH)	Anti-uteinizing hormone(LH) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.4-0.5	
GMP-SMT-184	Prolactin	BSA-Prolactin; OVA-Prolactin	Anti-Prolactin mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.4-0.5	
GMP-SMT-185	Estrone(E1)	BSA-Estrone(E1); OVA-Estrone(E1)	Anti-Estrone(E1) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.4-0.5	
GMP-SMT-186	Estradiol(E2/E3)	BSA-Estradiol(E2/E3); OVA-Estradiol(E2/E3)	Anti-Estradiol(E2/E3) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.4-0.5	
GMP-SMT-187	Growth hormone (hGH)	BSA-Growth hormone (hGH); OVA-Growth hormone (hGH)	Anti-Growth hormone (hGH) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.1-0.2	
GMP-SMT-188	Human chorionic gonadotropin (HCG)	BSA-Human chorionic gonadotropin (HCG); OVA-Human chorionic gonadotropin (HCG)	Anti-Human chorionic gonadotropin (HCG) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.1-0.2	
GMP-SMT-189	Diethylstilbestrol (DES)Hexestrol (HES)	BSA-Diethylstilbestrol (DES)Hexestrol (HES); OVA-Diethylstilbestrol (DES)Hexestrol (HES)	Anti-Diethylstilbestrol (DES)Hexestrol (HES) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.2-0.3	
GMP-SMT-190	Bisphenol A	BSA-Bisphenol A; OVA-Bisphenol A	Anti-Bisphenol A mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	2	
GMP-SMT-191	Thyroxin T4	BSA-Thyroxin T4; OVA-Thyroxin T4	Anti-Thyroxin T4 mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	3	
GMP-SMT-192	Forchlorfenuron	BSA-Forchlorfenuron; OVA-Forchlorfenuron	Anti-Forchlorfenuron mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.2	
GMP-SMT-193	Norethisterone	BSA-Norethisterone; OVA-Norethisterone	Anti-Norethisterone mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.4-0.5	
GMP-SMT-194	Flugestone Acetate	BSA-Flugestone Acetate; OVA-Flugestone Acetate	Anti-Flugestone Acetate mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.4-0.5	
GMP-SMT-195	Thyroxin T3	BSA-Thyroxin T3; OVA-Thyroxin T3	Anti-Thyroxin T3 mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.4-0.5	
GMP-SMT-196	IGFBP-1(Insulin-like growth factor binding protein 1)	BSA-IGFBP-1(Insulin-like growth factor binding protein 1); OVA-IGFBP-1(Insulin-like growth factor binding protein 1)	Anti-IGFBP-1(Insulin-like growth factor binding protein 1) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	/	

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-200	Cortisol (hydrocortisone)	BSA-Cortisol (hydrocortisone); OVA-Cortisol (hydrocortisone)	Anti-Cortisol (hydrocortisone) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	2	

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Chemicals

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-210	Benzophenone(BZP)	BSA-Benzophenone(BZP); OVA-Benzophenone(BZP)	Anti-Benzophenone(BZP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	4-5	
GMP-SMT-211	Dibutyl phthalate specific(DBP)	BSA-Dibutyl phthalate specific(DBP); OVA-Dibutyl phthalate specific(DBP)	Anti-Dibutyl phthalate specific(DBP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	18-20	
GMP-SMT-212	Dibutyl phthalate(DBP)	BSA-Dibutyl phthalate(DBP); OVA-Dibutyl phthalate(DBP)	Anti-Dibutyl phthalate(DBP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	18-20	
GMP-SMT-213	Dimethyl phthalate(DMP)	BSA-Dimethyl phthalate(DMP); OVA-Dimethyl phthalate(DMP)	Anti-Dimethyl phthalate(DMP) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	25-30	
GMP-SMT-214	Fluorescent Brightener KS-N	BSA-Fluorescent Brightener KS-N; OVA-Fluorescent Brightener KS-N	Anti-Fluorescent Brightener KS-N mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	65-70	

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Vitamins

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-215	Folate(folic acid, FA)	BSA-Folate(folic acid, FA); OVA-Folate(folic acid, FA)	Anti-Folate(folic acid, FA) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.4-0.5	
GMP-SMT-216	Vitamin B2(Vb2)	BSA-Vitamin B2(Vb2); OVA-Vitamin B2(Vb2)	Anti-Vitamin B2(Vb2) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	1-2	
GMP-SMT-217	Vitamin B12(Vb12)	BSA-Vitamin B12(Vb12); OVA-Vitamin B12(Vb12)	Anti-Vitamin B12(Vb12) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.4-0.5	
GMP-SMT-218	25-OH-Vitamin D3(25-OH-VD3)	BSA-25-OH-Vitamin D3(25-OH-VD3); OVA-25-OH-Vitamin D3(25-OH-VD3)	Anti-25-OH-Vitamin D3(25-OH-VD3) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.4-0.5	

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Amino Acids

Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
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Cat No.	Small molecules (Chemicals, Antibiotics, Mycotoxins, Hormones, Drugs of Abuse, etc.)	Carrier-coupled antigen/immunogen (hapten-carrier conjugates)	Anti-Hapten Antibody	Bioactivity validation	ELISA IC50 (ppb)	Order
GMP-SMT-219	Biotin(BT)	BSA-Biotin(BT); OVA-Biotin(BT)	Anti-Biotin(BT) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.6-0.9	
GMP-SMT-220	Lactoferrin(LF)	BSA-Lactoferrin(LF); OVA-Lactoferrin(LF)	Anti-Lactoferrin(LF) mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	/	
GMP-SMT-221	FITC	BSA-FITC; OVA-FITC	Anti-FITC rabbit polyclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	0.6-0.9	
GMP-SMT-222	Histamine	BSA-Histamine; OVA-Histamine	Anti-Histamine mouse monoclonal antibody	Competitive immunoassay validation (Competitive ELISA) with hapten-carrier conjugates and anti-Hapten antibody; Lateral flow immunoassay (LFIA);	1-2	





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IVD



Cat No.	Species	Biomarker	Cat No. of Antigen	Bioactivity validation of Antigen	Cat No. of Antibodies	Bioactivity validation of Antibodies	Order
GMP-SMT-TFF2	Human	trefoil factor 2 (TFF2)	GMP-SMT-TFF2-Ag01 : BSA-trefoil factor 2 (TFF2); GMP-SMT-TFF2-Ag02 : OVA-trefoil factor 2 (TFF2)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-trefoil factor 2 (TFF2)], trefoil factor 2 (TFF2) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in TFF2 level test of Cancer (Crohn's disease and inflammatory bowel disease prostate breast, colon and ovarian cancer) and related syndrome evaluation.	GMP-SMT-TFF2-Ab01 Anti-trefoil factor 2 (TFF2) mouse monoclonal antibody(mAb)	Human trefoil factor 2 (TFF2) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in TFF2 level test of Cancer (Crohn's disease and inflammatory bowel disease prostate breast, colon and ovarian cancer) and related syndrome evaluation.	
GMP-SMT-TFF3	Human	trefoil factor 3 (TFF3)	GMP-SMT-TFF3-Ag01 : BSA-trefoil factor 3 (TFF3); GMP-SMT-TFF3-Ag02 : OVA-trefoil factor 3 (TFF3)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-trefoil factor 3 (TFF3)], trefoil factor 3 (TFF3) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in TFF3 level test of Cancer (gastric cancer) and related syndrome evaluation.	GMP-SMT-TFF3-Ab01 Anti-trefoil factor 3 (TFF3) mouse monoclonal antibody(mAb)	Human trefoil factor 3 (TFF3) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in TFF3 level test of Cancer (gastric cancer) and related syndrome evaluation.	
GMP-SMT-MPA	Human	mycophenolic acid (MPA)	GMP-SMT-MPA-Ag01 : BSA-mycophenolic acid (MPA); GMP-SMT-MPA-Ag02 : OVA-mycophenolic acid (MPA)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-mycophenolic acid (MPA)], mycophenolic acid (MPA) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in MPA level test of Inflammation/autoimmune/inflammatory disease (autoimmune disease) and related syndrome evaluation.	GMP-SMT-MPA-Ab01 Anti-mycophenolic acid (MPA) mouse monoclonal antibody(mAb)	Human mycophenolic acid (MPA) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in MPA level test of Inflammation/autoimmune/inflammatory disease (autoimmune disease) and related syndrome evaluation.	
GMP-SMT-CCP	Human	cyclic citrullinated peptide (CCP)	GMP-SMT-CCP-Ag01 : BSA-cyclic citrullinated peptide (CCP); GMP-SMT-CCP-Ag02 : OVA-cyclic citrullinated peptide (CCP)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-cyclic citrullinated peptide (CCP)], cyclic citrullinated peptide (CCP) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in CCP level test of Inflammation/autoimmune/inflammatory disease (rheumatoid arthritis) and related syndrome evaluation.	GMP-SMT-CCP-Ab01 Anti-cyclic citrullinated peptide (CCP) mouse monoclonal antibody(mAb)	Human cyclic citrullinated peptide (CCP) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in CCP level test of Inflammation/autoimmune/inflammatory disease (rheumatoid arthritis) and related syndrome evaluation.	








Cat No.	Species	Biomarker	Cat No. of Antigen	Bioactivity validation of Antigen	Cat No. of Antibodies	Bioactivity validation of Antibodies	Order
GMP-SMT-SAH	Human	S-Adenosylhomocysteine (SAH)	GMP-SMT-SAH-Ag01: BSA-S-Adenosylhomocysteine (SAH); GMP-SMT-SAH-Ag02: OVA-S-Adenosylhomocysteine (SAH)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-S-Adenosylhomocysteine (SAH)], S-Adenosylhomocysteine (SAH) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in SAH level test of Cardiovascular disease (cardiovascular disease, cancers, liver disease, and many other diseases) and related syndrome evaluation.	GMP-SMT-SAH-Ab01 Anti-S-Adenosylhomocysteine (SAH) mouse monoclonal antibody(mAb)	Human S-Adenosylhomocysteine (SAH) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in SAH level test of Cardiovascular disease (cardiovascular disease, cancers, liver disease, and many other diseases) and related syndrome evaluation.	
GMP-SMT-HCY	Human	Homocysteine (HCY)	GMP-SMT-HCY-Ag01: BSA-Homocysteine (HCY); GMP-SMT-HCY-Ag02: OVA-Homocysteine (HCY)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Homocysteine (HCY)], Homocysteine (HCY) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in HCY level test of Cardiovascular disease (dementia, heart disease and stroke.) and related syndrome evaluation.	GMP-SMT-HCY-Ab01 Anti-Homocysteine (HCY) mouse monoclonal antibody(mAb)	Human Homocysteine (HCY) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in HCY level test of Cardiovascular disease (dementia, heart disease and stroke.) and related syndrome evaluation.	
GMP-SMT-RAA/Aldo	Human	aldosterone (RAA/Aldo)	GMP-SMT-RAA/Aldo-Ag01: BSA-aldosterone (RAA/Aldo); GMP-SMT-RAA/Aldo-Ag02: OVA-aldosterone (RAA/Aldo)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-aldosterone (RAA/Aldo)], aldosterone (RAA/Aldo) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in RAA/Aldo level test of Cardiovascular disease (Hypertension, blood pressure, hyperaldosteronism, renal artery stenosis (narrowing of the renal artery), congestive heart failure, cirrhosis, some kidney diseases (e.g., nephrotic syndrome).) and related syndrome evaluation.	GMP-SMT-RAA/Aldo-Ab01 Anti-aldosterone (RAA/Aldo) mouse monoclonal antibody(mAb)	Human aldosterone (RAA/Aldo) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in RAA/Aldo level test of Cardiovascular disease (Hypertension, blood pressure, hyperaldosteronism, renal artery stenosis (narrowing of the renal artery), congestive heart failure, cirrhosis, some kidney diseases (e.g., nephrotic syndrome).) and related syndrome evaluation.	
GMP-SMT-Digoxin	Human	digoxigenin (Digoxin)	GMP-SMT-Digoxin-Ag01: BSA-digoxigenin (Digoxin); GMP-SMT-Digoxin-Ag02: OVA-digoxigenin (Digoxin)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-digoxigenin (Digoxin)], digoxigenin (Digoxin) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in Digoxin level test of Cardiovascular disease and related syndrome evaluation.	GMP-SMT-Digoxin-Ab01 Anti-digoxigenin (Digoxin) mouse monoclonal antibody(mAb)	Human digoxigenin (Digoxin) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in Digoxin level test of Cardiovascular disease and related syndrome evaluation.	
GMP-SMT-HFABP	Human	Human Fatty Acid Binding Protein (HFABP)	GMP-SMT-HFABP-Ag01: BSA-Human Fatty Acid Binding Protein (HFABP); GMP-SMT-HFABP-Ag02: OVA-Human Fatty Acid Binding Protein (HFABP)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Human Fatty Acid Binding Protein (HFABP)], Human Fatty Acid Binding Protein (HFABP) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in HFABP level test of Cardiovascular disease (metabolic syndrome, atherosclerosis, insulin resistance and low-grade inflammation) and related syndrome evaluation.	GMP-SMT-HFABP-Ab01 Anti-Human Fatty Acid Binding Protein (HFABP) mouse monoclonal antibody(mAb)	Human Human Fatty Acid Binding Protein (HFABP) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in HFABP level test of Cardiovascular disease (metabolic syndrome, atherosclerosis, insulin resistance and low-grade inflammation) and related syndrome evaluation.	
GMP-SMT-LCA	Human	Lithocholic Acid (LCA)	GMP-SMT-LCA-Ag01: BSA-Lithocholic Acid (LCA); GMP-SMT-LCA-Ag02: OVA-Lithocholic Acid (LCA)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Lithocholic Acid (LCA)], Lithocholic Acid (LCA) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in LCA level test of Liver diseases (liver damage) and related syndrome evaluation.	GMP-SMT-LCA-Ab01 Anti-Lithocholic Acid (LCA) mouse monoclonal antibody(mAb)	Human Lithocholic Acid (LCA) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in LCA level test of Liver diseases (liver damage) and related syndrome evaluation.	


Cat No.	Species	Biomarker	Cat No. of Antigen	Bioactivity validation of Antigen	Cat No. of Antibodies	Bioactivity validation of Antibodies	Order
GMP-SMT-cholanoic-acid	Human	deoxycholic acid (cholanoic acid)	GMP-SMT-cholanoic-acid-Ag01: BSA-deoxycholic acid (cholanoic acid); GMP-SMT-cholanoic-acid-Ag02: OVA-deoxycholic acid (cholanoic acid)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-deoxycholic acid (cholanoic acid)], deoxycholic acid (cholanoic acid) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in cholanoic acid level test of Liver diseases (liver cirrhosis, chronic kidney disease, vascular calcification, vasculature toxicity) and related syndrome evaluation.	GMP-SMT-cholanoic-acid-Ab01 Anti-deoxycholic acid (cholanoic acid) mouse monoclonal antibody(mAb)	Human deoxycholic acid (cholanoic acid) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in cholanoic acid level test of Liver diseases (liver cirrhosis, chronic kidney disease, vascular calcification, vasculature toxicity) and related syndrome evaluation.	
GMP-SMT-HA	Human	hyaluronic acid (HA)	GMP-SMT-HA-Ag01: BSA-hyaluronic acid (HA); GMP-SMT-HA-Ag02: OVA-hyaluronic acid (HA)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-hyaluronic acid (HA)], hyaluronic acid (HA) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in HA level test of Liver diseases and related syndrome evaluation.	GMP-SMT-HA-Ab01 Anti-hyaluronic acid (HA) mouse monoclonal antibody(mAb)	Human hyaluronic acid (HA) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in HA level test of Liver diseases and related syndrome evaluation.	
GMP-SMT-CG	Human	Cholyglycine (CG)	GMP-SMT-CG-Ag01: BSA-Cholyglycine (CG); GMP-SMT-CG-Ag02: OVA-Cholyglycine (CG)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Cholyglycine (CG)], Cholyglycine (CG) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in CG level test of Liver diseases (liver cirrhosis or obstructive liver disease) and related syndrome evaluation.	GMP-SMT-CG-Ab01 Anti-Cholyglycine (CG) mouse monoclonal antibody(mAb)	Human Cholyglycine (CG) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in CG level test of Liver diseases (liver cirrhosis or obstructive liver disease) and related syndrome evaluation.	
GMP-SMT-G17	Human	Gastrin 17 (G17)	GMP-SMT-G17-Ag01: BSA-Gastrin 17 (G17); GMP-SMT-G17-Ag02: OVA-Gastrin 17 (G17)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Gastrin 17 (G17)], Gastrin 17 (G17) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in G17 level test of Gastric disease (Chronic atrophic gastritis (CAG)) and related syndrome evaluation.	GMP-SMT-G17-Ab01 Anti-Gastrin 17 (G17) mouse monoclonal antibody(mAb)	Human Gastrin 17 (G17) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in G17 level test of Gastric disease (Chronic atrophic gastritis (CAG)) and related syndrome evaluation.	
GMP-SMT-TFF1	Human	trefoil factor 1 (TFF1)	GMP-SMT-TFF1-Ag01: BSA-trefoil factor 1 (TFF1); GMP-SMT-TFF1-Ag02: OVA-trefoil factor 1 (TFF1)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-trefoil factor 1 (TFF1)], trefoil factor 1 (TFF1) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in TFF1 level test of Gastric disease (Bile Reflux and Gastric Ulcer) and related syndrome evaluation.	GMP-SMT-TFF1-Ab01 Anti-trefoil factor 1 (TFF1) mouse monoclonal antibody(mAb)	Human trefoil factor 1 (TFF1) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in TFF1 level test of Gastric disease (Bile Reflux and Gastric Ulcer) and related syndrome evaluation.	
GMP-SMT-rT3	Human	Reverse triiodothyronine (rT3)	GMP-SMT-rT3-Ag01: BSA-Reverse triiodothyronine (rT3); GMP-SMT-rT3-Ag02: OVA-Reverse triiodothyronine (rT3)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Reverse triiodothyronine (rT3)], Reverse triiodothyronine (rT3) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in rT3 level test of Thyroid diseases (stress) and related syndrome evaluation.	GMP-SMT-rT3-Ab01 Anti-Reverse triiodothyronine (rT3) mouse monoclonal antibody(mAb)	Human Reverse triiodothyronine (rT3) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in rT3 level test of Thyroid diseases (stress) and related syndrome evaluation.	

Cat No.	Species	Biomarker	Cat No. of Antigen	Bioactivity validation of Antigen	Cat No. of Antibodies	Bioactivity validation of Antibodies	Order
GMP-SMT-25-OH-VD3/2	Human	25 hydroxyvitamin D (25-OH-(VD3+VD2))	GMP-SMT-25-OH-VD3/2-Ag01: BSA-25 hydroxyvitamin D (25-OH-(VD3+VD2)); GMP-SMT-25-OH-VD3/2-Ag02: OVA-25 hydroxyvitamin D (25-OH-(VD3+VD2))	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-25 hydroxyvitamin D (25-OH-(VD3+VD2))], 25 hydroxyvitamin D (25-OH-(VD3+VD2)) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in 25-OH-(VD3+VD2) level test of Metabolic diseases (bone fracture, coronary heart disease, cancer, and all-cause mortality) and related syndrome evaluation.	GMP-SMT-25-OH-VD3/2-Ab01 Anti-25 hydroxyvitamin D (25-OH-(VD3+VD2)) mouse monoclonal antibody(mAb)	Human 25 hydroxyvitamin D (25-OH-(VD3+VD2)) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in 25-OH-(VD3+VD2) level test of Metabolic diseases (bone fracture, coronary heart disease, cancer, and all-cause mortality) and related syndrome evaluation.	
GMP-SMT-25-OH-VD3	Human	25 hydroxy (OH) Vitamin D3 (25-OH-VD-3)	GMP-SMT-25-OH-VD3-Ag01: BSA-25-hydroxy (OH) Vitamin D3 (25-OH-VD-3); GMP-SMT-25-OH-VD3-Ag02: OVA-25-hydroxy (OH) Vitamin D3 (25-OH-VD-3)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-25-hydroxy (OH) Vitamin D3 (25-OH-VD-3)], 25 hydroxy (OH) Vitamin D3 (25-OH-VD-3) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in 25-OH-(VD3+VD2) level test of Metabolic diseases (bone fracture, coronary heart disease, cancer, and all-cause mortality) and related syndrome evaluation.	GMP-SMT-25-OH-VD3-Ab01 Anti-25-hydroxy (OH) Vitamin D3 (25-OH-VD-3) mouse monoclonal antibody(mAb)	Human 25 hydroxy (OH) Vitamin D3 (25-OH-VD-3) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in 25-OH-(VD3+VD2) level test of Metabolic diseases (bone fracture, coronary heart disease, cancer, and all-cause mortality) and related syndrome evaluation.	
GMP-SMT-25-OH-VD	Human	25-hydroxy (OH) Vitamin (25-OH-VD)	GMP-SMT-25-OH-VD-Ag01: BSA-25-hydroxy (OH) Vitamin (25-OH-VD); GMP-SMT-25-OH-VD-Ag02: OVA-25-hydroxy (OH) Vitamin (25-OH-VD)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-25-hydroxy (OH) Vitamin (25-OH-VD)], 25-hydroxy (OH) Vitamin (25-OH-VD) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in 25-OH-VD level test of Metabolic diseases (osteoporosis and rickets) and related syndrome evaluation.	GMP-SMT-25-OH-VD-Ab01 Anti-25-hydroxy (OH) Vitamin (25-OH-VD) mouse monoclonal antibody(mAb)	Human 25-hydroxy (OH) Vitamin (25-OH-VD) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in 25-OH-VD level test of Metabolic diseases (osteoporosis and rickets) and related syndrome evaluation.	
GMP-SMT-LP-PLA2	Human	Phospholipase A2 (LP-PLA2)	GMP-SMT-LP-PLA2-Ag01: BSA-Phospholipase A2 (LP-PLA2); GMP-SMT-LP-PLA2-Ag02: OVA-Phospholipase A2 (LP-PLA2)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Phospholipase A2 (LP-PLA2)], Phospholipase A2 (LP-PLA2) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in LP-PLA2 level test of Metabolic diseases (atherosclerosis, hyperlipidemia, obesity, and diabetes) and related syndrome evaluation.	GMP-SMT-LP-PLA2-Ab01 Anti-Phospholipase A2 (LP-PLA2) mouse monoclonal antibody(mAb)	Human Phospholipase A2 (LP-PLA2) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in LP-PLA2 level test of Metabolic diseases (atherosclerosis, hyperlipidemia, obesity, and diabetes) and related syndrome evaluation.	
GMP-SMT-RBP4	Human	Retinol binding protein 4 (RBP4)	GMP-SMT-RBP4-Ag01: BSA-Retinol binding protein 4 (RBP4); GMP-SMT-RBP4-Ag02: OVA-Retinol binding protein 4 (RBP4)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Retinol binding protein 4 (RBP4)], Retinol binding protein 4 (RBP4) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in RBP4 level test of Metabolic diseases (obesity, type 2 diabetes, metabolic syndrome, and cardiovascular diseases) and related syndrome evaluation.	GMP-SMT-RBP4-Ab01 Anti-Retinol binding protein 4 (RBP4) mouse monoclonal antibody(mAb)	Human Retinol binding protein 4 (RBP4) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in RBP4 level test of Metabolic diseases (obesity, type 2 diabetes, metabolic syndrome, and cardiovascular diseases) and related syndrome evaluation.	
GMP-SMT-DHEA	Human	dehydroepiandrosterone (DHEA)	GMP-SMT-DHEA-Ag01: BSA-dehydroepiandrosterone (DHEA); GMP-SMT-DHEA-Ag02: OVA-dehydroepiandrosterone (DHEA)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-dehydroepiandrosterone (DHEA)], dehydroepiandrosterone (DHEA) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in DHEA level test of Hormone disorders (Hormone disorders) and related syndrome evaluation.	GMP-SMT-DHEA-Ab01 Anti-dehydroepiandrosterone (DHEA) mouse monoclonal antibody(mAb)	Human dehydroepiandrosterone (DHEA) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in DHEA level test of Hormone disorders (Hormone disorders) and related syndrome evaluation.	

Cat No.	Species	Biomarker	Cat No. of Antigen	Bioactivity validation of Antigen	Cat No. of Antibodies	Bioactivity validation of Antibodies	Order
GMP-SMT-DEX	Human	Dexamethasone (DEX)	GMP-SMT-DEX-Ag01: BSA-Dexamethasone (DEX); GMP-SMT-DEX-Ag02: OVA-Dexamethasone (DEX)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Dexamethasone (DEX)], Dexamethasone (DEX) antibodies binding, Immunogen in (DEX) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in DEX level test of Hormone disorders (Cushing's syndrome) and related syndrome evaluation.	GMP-SMT-DEX-Ab01 Anti-Dexamethasone (DEX) mouse monoclonal antibody(mAb)	Human Dexamethasone (DEX) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in DEX level test of Hormone disorders (Cushing's syndrome) and related syndrome evaluation.	
GMP-SMT-Calcitonin	Human	Calcitonin	GMP-SMT-Calcitonin-Ag01: BSA-Calcitonin; GMP-SMT-Calcitonin-Ag02: OVA-Calcitonin	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Calcitonin], Calcitonin antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in Calcitonin level test of Hormone disorders (thyroid cancer) and related syndrome evaluation.	GMP-SMT-Calcitonin-Ab01 Anti-Calcitonin mouse monoclonal antibody(mAb)	Human Calcitonin binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in Calcitonin level test of Hormone disorders (thyroid cancer) and related syndrome evaluation.	
GMP-SMT-Cortisol	Human	Cortisol	GMP-SMT-Cortisol-Ag01: BSA-Cortisol; GMP-SMT-Cortisol-Ag02: OVA-Cortisol	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Cortisol], Cortisol antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in Cortisol level test of Hormone disorders (adrenal gland disorder) and related syndrome evaluation.	GMP-SMT-Cortisol-Ab01 Anti-Cortisol mouse monoclonal antibody(mAb)	Human Cortisol binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in Cortisol level test of Hormone disorders (adrenal gland disorder) and related syndrome evaluation.	
GMP-SMT-Testosterone	Human	Testosterone	GMP-SMT-Testosterone-Ag01: BSA-Testosterone; GMP-SMT-Testosterone-Ag02: OVA-Testosterone	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Testosterone], Testosterone antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in Testosterone level test of Hormone disorders (Testosterone Deficiency Syndrome) and related syndrome evaluation.	GMP-SMT-Testosterone-Ab01 Anti-Testosterone mouse monoclonal antibody(mAb)	Human Testosterone binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in Testosterone level test of Hormone disorders (Testosterone Deficiency Syndrome) and related syndrome evaluation.	
GMP-SMT-PG	Human	Prostaglandin (PG)	GMP-SMT-PG-Ag01: BSA-Prostaglandin (PG); GMP-SMT-PG-Ag02: OVA-Prostaglandin (PG)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Prostaglandin (PG)], Prostaglandin (PG) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in PG level test of Hormone disorders (acute inflammation) and related syndrome evaluation.	GMP-SMT-PG-Ab01 Anti-Prostaglandin (PG) mouse monoclonal antibody(mAb)	Human Prostaglandin (PG) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in PG level test of Hormone disorders (acute inflammation) and related syndrome evaluation.	
GMP-SMT-EPO	Human	Erythropoetin (EPO)	GMP-SMT-EPO-Ag01: BSA-Erythropoetin (EPO); GMP-SMT-EPO-Ag02: OVA-Erythropoetin (EPO)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Erythropoetin (EPO)], Erythropoetin (EPO) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in EPO level test of Hormone disorders (Anemia, polycythemia or erythrocytosis, hypertension) and related syndrome evaluation.	GMP-SMT-EPO-Ab01 Anti-Erythropoetin (EPO) mouse monoclonal antibody(mAb)	Human Erythropoetin (EPO) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in EPO level test of Hormone disorders (Anemia, polycythemia or erythrocytosis, hypertension) and related syndrome evaluation.	
GMP-SMT-Progesterone	Human	Progesterone	GMP-SMT-Progesterone-Ag01: BSA-Progesterone; GMP-SMT-Progesterone-Ag02: OVA-Progesterone	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Progesterone], Progesterone antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in Progesterone level test of Hormone disorders (fertility) and related syndrome evaluation.	GMP-SMT-Progesterone-Ab01 Anti-Progesterone mouse monoclonal antibody(mAb)	Human Progesterone binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in Progesterone level test of Hormone disorders (fertility) and related syndrome evaluation.	

Cat No.	Species	Biomarker	Cat No. of Antigen	Bioactivity validation of Antigen	Cat No. of Antibodies	Bioactivity validation of Antibodies	Order
GMP-SMT-LH	Human	Luteinizing hormone (LH)	GMP-SMT-LH-Ag01: BSA-Luteinizing hormone (LH); GMP-SMT-LH-Ag02: OVA-Luteinizing hormone (LH)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Luteinizing hormone (LH)], Luteinizing hormone (LH) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in LH level test of Hormone disorders (fertility) and related syndrome evaluation.	GMP-SMT-LH-Ab01 Anti-Luteinizing hormone (LH) mouse monoclonal antibody(mAb)	Human Luteinizing hormone (LH) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in LH level test of Hormone disorders (fertility) and related syndrome evaluation.	
GMP-SMT-Prolactin	Human	Prolactin	GMP-SMT-Prolactin-Ag01: BSA-Prolactin; GMP-SMT-Prolactin-Ag02: OVA-Prolactin	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Prolactin], Prolactin antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in Prolactin level test of Hormone disorders (fertility) and related syndrome evaluation.	GMP-SMT-Prolactin-Ab01 Anti-Prolactin mouse monoclonal antibody(mAb)	Human Prolactin binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in Prolactin level test of Hormone disorders (fertility) and related syndrome evaluation.	
GMP-SMT-E1	Human	Estrone (E1)	GMP-SMT-E1-Ag01: BSA-Estrone (E1); GMP-SMT-E1-Ag02: OVA-Estrone (E1)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Estrone (E1)], Estrone (E1) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in E1 level test of Hormone disorders (irregular bleeding, fatigue or mood swings) and related syndrome evaluation.	GMP-SMT-E1-Ab01 Anti-Estrone (E1) mouse monoclonal antibody(mAb)	Human Estrone (E1) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in E1 level test of Hormone disorders (irregular bleeding, fatigue or mood swings) and related syndrome evaluation.	
GMP-SMT-E2/E3	Human	Estradiol (E2/E3)	GMP-SMT-E2/E3-Ag01: BSA-Estradiol (E2/E3); GMP-SMT-E2/E3-Ag02: OVA-Estradiol (E2/E3)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Estradiol (E2/E3)], Estradiol (E2/E3) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in E2/E3 level test of Hormone disorders (Fertility) and related syndrome evaluation.	GMP-SMT-E2/E3-Ab01 Anti-Estradiol (E2/E3) mouse monoclonal antibody(mAb)	Human Estradiol (E2/E3) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in E2/E3 level test of Hormone disorders (Fertility) and related syndrome evaluation.	
GMP-SMT-hGH	Human	Growth hormone (hGH)	GMP-SMT-hGH-Ag01: BSA-Growth hormone (hGH); GMP-SMT-hGH-Ag02: OVA-Growth hormone (hGH)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Growth hormone (hGH)], Growth hormone (hGH) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in hGH level test of Hormone disorders (Acromegaly, gigantism) and related syndrome evaluation.	GMP-SMT-hGH-Ab01 Anti-Growth hormone (hGH) mouse monoclonal antibody(mAb)	Human Growth hormone (hGH) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in hGH level test of Hormone disorders (Acromegaly, gigantism) and related syndrome evaluation.	
GMP-SMT-HCG	Human	Human chorionic gonadotropin (HCG)	GMP-SMT-HCG-Ag01: BSA-Human chorionic gonadotropin (HCG); GMP-SMT-HCG-Ag02: OVA-Human chorionic gonadotropin (HCG)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Human chorionic gonadotropin (HCG)], Human chorionic gonadotropin (HCG) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in HCG level test of Hormone disorders (pregnancy) and related syndrome evaluation.	GMP-SMT-HCG-Ab01 Anti-Human chorionic gonadotropin (HCG) mouse monoclonal antibody(mAb)	Human Human chorionic gonadotropin (HCG) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in HCG level test of Hormone disorders (pregnancy) and related syndrome evaluation.	
GMP-SMT-DES/HES	Human	Diethylstilbestrol/Hexestrol (DES/HES)	GMP-SMT-DES/HES-Ag01: BSA-Diethylstilbestrol/Hexestrol (DES/HES); GMP-SMT-DES/HES-Ag02: OVA-Diethylstilbestrol/Hexestrol (DES/HES)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Diethylstilbestrol/Hexestrol (DES/HES)], Diethylstilbestrol/Hexestrol (DES/HES) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in DES/HES level test of Hormone disorders (Food safety) and related syndrome evaluation.	GMP-SMT-DES/HES-Ab01 Anti-Diethylstilbestrol/Hexestrol (DES/HES) mouse monoclonal antibody(mAb)	Human Diethylstilbestrol/Hexestrol (DES/HES) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in DES/HES level test of Hormone disorders (Food safety) and related syndrome evaluation.	

Cat No.	Species	Biomarker	Cat No. of Antigen	Bioactivity validation of Antigen	Cat No. of Antibodies	Bioactivity validation of Antibodies	Order
GMP-SMT-Bisphenol-A	Human	Bisphenol A	GMP-SMT-Bisphenol-A-Ag01: BSA-Bisphenol A; GMP-SMT-Bisphenol-A-Ag02: OVA-Bisphenol A	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Bisphenol A], Bisphenol A antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in Bisphenol A level test of Hormone disorders (Toxicity, mutagen and carcinogen) and related syndrome evaluation.	GMP-SMT-Bisphenol-A-Ab01 Anti-Bisphenol A mouse monoclonal antibody(mAb)	Human Bisphenol A binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in Bisphenol A level test of Hormone disorders (Toxicity, mutagen and carcinogen) and related syndrome evaluation.	
GMP-SMT-Thyroxin-T4	Human	Thyroxin T4	GMP-SMT-Thyroxin-T4-Ag01: BSA-Thyroxin T4; GMP-SMT-Thyroxin-T4-Ag02: OVA-Thyroxin T4	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Thyroxin T4], Thyroxin T4 antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in Thyroxin T4 level test of Hormone disorders (hyperthyroidism) and related syndrome evaluation.	GMP-SMT-Thyroxin-T4-Ab01 Anti-Thyroxin T4 mouse monoclonal antibody(mAb)	Human Thyroxin T4 binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in Thyroxin T4 level test of Hormone disorders (hyperthyroidism) and related syndrome evaluation.	
GMP-SMT-Forchlorfenuron	Human	Forchlorfenuron	GMP-SMT-Forchlorfenuron-Ag01: BSA-Forchlorfenuron; GMP-SMT-Forchlorfenuron-Ag02: OVA-Forchlorfenuron	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Forchlorfenuron], Forchlorfenuron antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in Forchlorfenuron level test of Hormone disorders (food safety) and related syndrome evaluation.	GMP-SMT-Forchlorfenuron-Ab01 Anti-Forchlorfenuron mouse monoclonal antibody(mAb)	Human Forchlorfenuron binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in Forchlorfenuron level test of Hormone disorders (food safety) and related syndrome evaluation.	
GMP-SMT-Norethisterone	Human	Norethisterone	GMP-SMT-Norethisterone-Ag01: BSA-Norethisterone; GMP-SMT-Norethisterone-Ag02: OVA-Norethisterone	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Norethisterone], Norethisterone antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in Norethisterone level test of Hormone disorders (breast cancer) and related syndrome evaluation.	GMP-SMT-Norethisterone-Ab01 Anti-Norethisterone mouse monoclonal antibody(mAb)	Human Norethisterone binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in Norethisterone level test of Hormone disorders (breast cancer) and related syndrome evaluation.	
GMP-SMT-Flugestone Acetate	Human	Flugestone Acetate	GMP-SMT-Flugestone Acetate-Ag01: BSA-Flugestone Acetate; GMP-SMT-Flugestone Acetate-Ag02: OVA-Flugestone Acetate	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Flugestone Acetate], Flugestone Acetate antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in Flugestone Acetate level test of Hormone disorders and related syndrome evaluation.	GMP-SMT-Flugestone Acetate-Ab01 Anti-Flugestone Acetate mouse monoclonal antibody(mAb)	Human Flugestone Acetate binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in Flugestone Acetate level test of Hormone disorders and related syndrome evaluation.	
GMP-SMT-Thyroxin-T3	Human	Thyroxin T3	GMP-SMT-Thyroxin-T3-Ag01: BSA-Thyroxin T3; GMP-SMT-Thyroxin-T3-Ag02: OVA-Thyroxin T3	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Thyroxin T3], Thyroxin T3 antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in Thyroxin T3 level test of Hormone disorders (hyperthyroidism and hypopituitarism) and related syndrome evaluation.	GMP-SMT-Thyroxin-T3-Ab01 Anti-Thyroxin T3 mouse monoclonal antibody(mAb)	Human Thyroxin T3 binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in Thyroxin T3 level test of Hormone disorders (hyperthyroidism and hypopituitarism) and related syndrome evaluation.	
GMP-SMT-IGFBP-1	Human	Insulin-like growth factor binding protein 1 (IGFBP-1)	GMP-SMT-IGFBP-1-Ag01: BSA-Insulin-like growth factor binding protein 1 (IGFBP-1); GMP-SMT-IGFBP-1-Ag02: OVA-Insulin-like growth factor binding protein 1 (IGFBP-1)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Insulin-like growth factor binding protein 1 (IGFBP-1)], Insulin-like growth factor binding protein 1 (IGFBP-1) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in IGFBP-1 level test of Hormone disorders (Pregnancy) and related syndrome evaluation.	GMP-SMT-IGFBP-1-Ab01 Anti-Insulin-like growth factor binding protein 1 (IGFBP-1) mouse monoclonal antibody(mAb)	Human Insulin-like growth factor binding protein 1 (IGFBP-1) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in IGFBP-1 level test of Hormone disorders (Pregnancy) and related syndrome evaluation.	

Cat No.	Species	Biomarker	Cat No. of Antigen	Bioactivity validation of Antigen	Cat No. of Antibodies	Bioactivity validation of Antibodies	Order
GMP-SMT-TBG	Human	Thyroid Binding Globulin (TBG)	GMP-SMT-TBG-Ag01: BSA-Thyroid Binding Globulin (TBG); GMP-SMT-TBG-Ag02: OVA-Thyroid Binding Globulin (TBG)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Thyroid Binding Globulin (TBG)], Thyroid Binding Globulin (TBG) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in TBG level test of Hormone disorders (hypothyroidism, liver disease, and pregnancy) and related syndrome evaluation.	GMP-SMT-TBG-Ab01 Anti-Thyroid Binding Globulin (TBG) mouse monoclonal antibody(mAb)	Human Thyroid Binding Globulin (TBG) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in TBG level test of Hormone disorders (hypothyroidism, liver disease, and pregnancy) and related syndrome evaluation.	
GMP-SMT-FSH	Human	follicle stimulating hormone (FSH)	GMP-SMT-FSH-Ag01: BSA-follicle stimulating hormone (FSH); GMP-SMT-FSH-Ag02: OVA-follicle stimulating hormone (FSH)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-follicle stimulating hormone (FSH)], follicle stimulating hormone (FSH) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in FSH level test of Hormone disorders (hypergonadotrophic-hypogonadism and infertility) and related syndrome evaluation.	GMP-SMT-FSH-Ab01 Anti-follicle stimulating hormone (FSH) mouse monoclonal antibody(mAb)	Human follicle stimulating hormone (FSH) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in FSH level test of Hormone disorders (hypergonadotrophic-hypogonadism and infertility) and related syndrome evaluation.	
GMP-SMT-FA	Human	folic acid (FA)	GMP-SMT-FA-Ag01: BSA-folic acid (FA); GMP-SMT-FA-Ag02: OVA-folic acid (FA)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-folic acid (FA)], folic acid (FA) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in FA level test of Vitamin deficiency (vitamin deficiency) and related syndrome evaluation.	GMP-SMT-FA-Ab01 Anti-folic acid (FA) mouse monoclonal antibody(mAb)	Human folic acid (FA) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in FA level test of Vitamin deficiency (vitamin deficiency) and related syndrome evaluation.	
GMP-SMT-VPA	Human	Sodium valproate (VPA)	GMP-SMT-VPA-Ag01: BSA-Sodium valproate (VPA); GMP-SMT-VPA-Ag02: OVA-Sodium valproate (VPA)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Sodium valproate (VPA)], Sodium valproate (VPA) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in VPA level test of Epilepsy (toxicity) and related syndrome evaluation.	GMP-SMT-VPA-Ab01 Anti-Sodium valproate (VPA) mouse monoclonal antibody(mAb)	Human Sodium valproate (VPA) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in VPA level test of Epilepsy (toxicity) and related syndrome evaluation.	
GMP-SMT-Paracetamol	Human	acetaminophen (Paracetamol)	GMP-SMT-Paracetamol-Ag01: BSA-acetaminophen (Paracetamol); GMP-SMT-Paracetamol-Ag02: OVA-acetaminophen (Paracetamol)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-acetaminophen (Paracetamol)], acetaminophen (Paracetamol) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in Paracetamol level test of Pain (hepatotoxicity) and related syndrome evaluation.	GMP-SMT-Paracetamol-Ab01 Anti-acetaminophen (Paracetamol) mouse monoclonal antibody(mAb)	Human acetaminophen (Paracetamol) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in Paracetamol level test of Pain (hepatotoxicity) and related syndrome evaluation.	
GMP-SMT-SA	Human	Streptavidin (SA)	GMP-SMT-SA-Ag01: BSA-Streptavidin (SA); GMP-SMT-SA-Ag02: OVA-Streptavidin (SA)	Competitive immunoassay-validated hapten-carrier conjugates [BSA-&OVA-Streptavidin (SA)], Streptavidin (SA) antibodies binding, Immunogen in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays as control material in SA level test of Biology and related syndrome evaluation.	GMP-SMT-SA-Ab01 Anti-Streptavidin (SA) mouse monoclonal antibody(mAb)	Human Streptavidin (SA) binding, in Competitive immunoassay validation, Elisa, lateral-flow tests, and other immunoassays in SA level test of Biology and related syndrome evaluation.	

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Introduction-Food safety and small molecule detection

Food can transmit disease from person to person by serving as a growth medium for food contaminations that can cause food poisoning. Food safety refers to non-toxic, harmless of food, in line with the nutritional requirements, and does not cause any acute, subacute or chronic hazards on human health. Currently, food safety is a growing concern all over the world especially in developing areas. Ensuring the safety of food has become a significant challenge due to globalization of the food supply and the demand for minimally processed food products. Some potential sources for chemical and biological contamination of foods include: the use of pesticides, fertilizers, and antibiotics around agricultural food products; accidental introduction of additives to industrially processed foods at unsafe levels, or intentional adulteration with low quality or unsafe ingredients for economic purposes; cross-contamination with allergens or other substances that can be dangerous to sensitive individuals (e.g., wheat gluten); microbial growth deriving from unsanitary agricultural or processing conditions; and spoilage during transport and storage of foods due to packaging defects or incorrect handling by consumers. To manage food safety risks, there is a continued need for rapid, sensitive, inexpensive, and reliable techniques to detect the presence of chemical contaminants and microbes in complex media.

Food testing and analyzing plays an important role in quality control of food production.

1. Culture-based traditional techniques

Traditional culture methods use selective liquid or solid culture media to grow, isolate, and enumerate target microorganism and simultaneously prevent the growth of other microorganisms present in the food (Jasson et al., 2010). These methods for the identification of foodborne pathogens involve pre-enrichment growth, selective enrichment culture, and selective plating followed by biochemical identification and serological confirmation of results. These methods are relatively inexpensive, sensitive, and still regarded as gold standards, the main drawback of these methods is their long analysis time and labor intensiveness. The whole procedure takes typically between 7 and 10 days (Vunrczant and Pillustoesser, 1987; Biswas, 2005).

2. Microscopic and optical characteristics based methods

Various methods based on microscopic and optical characteristics of the appropriately stained microbial cells have been developed for assuring microbial safety of foods and food products. These methods include Direct Epifluorescent Filter Technique (DEFT), Flow Cytometry, and Solid Phase Cytometry. DEFT is a rapid method for enumerating microbial foodborne pathogens and is used widely in the dairy industry for raw foods (Hermida et al., 2000), milk and milk products, beverages, foods, etc. Flow cytometry is applied for the enumeration of viable bacteria in a sample, and uses fluorescent dyes for the analysis of viability, metabolic state, and antigenic markers of bacteria. Solid-phase cytometry (SPC) combines the principles of epifluorescence microscopy and flow cytometry.

3. Immunological methods

All immunological methods for the detection of foodborne pathogens are based on antigen-antibody reactions. The body produces specific antibodies in response to invading pathogen. These reactions are versatile and specific but the success of an immunoassay depends on the specificity of antibody. Various kits have been developed based on immunological methods for the detection of foodborne pathogens, and are available commercially and have been responsible for revolutionizing the field of food testing (Table 1).

Table 1 Commercially available kits based on immunological methods for detection of foodborne pathogens

Name of kit	Assay format	Target organism	Firm
Campyslide	Latex agglutination	Campylobacter	Becton Dickinson
RIM	Latex agglutination	E.Coli O157:H7	REMEL
Prolex	Latex agglutination	E.Coli O157:H7	PRO-LAB
Ecolex O157	Latex agglutination	E.Coli O157:H7	Orion Diagnostica
Wellcolex O157	Latex agglutination	E.Coli O157:H7	Laboratoire Wellcome
Wellcolex	Latex agglutination	Shigella	Laboratoire Wellcome
MicroScreen	Latex agglutination	Listeria, Campylobacter	Mercia
Listeria latex Frederick, MD	Latex agglutination	Listeria	Microbiology International
Staphyloslide	Latex agglutination	Staphylococcus aureus	Becton Dickinson
Aureus test	Latex agglutination	Staphylococcus aureus	Trisum
Bactigen	Latex agglutination	Shigella	Wampole Labs
1-2 test	Immunodiffusion	Salmonella	BioControl
EHEC-TEK	ELISA	E.Coli O157:H7	Organon-Teknika
RIDASCREEN	ELISA	Staphylococcus aureus	R-Biopharm
VIDAS	ELISA	Staphylococcus aureus, Listeria, Listeria monocytogenes, Salmonella, E. coli O157, Staphylococcal enterotoxin, and Campylobacter	BioMerieux, Hazelwood, MO
Assurance	ELISA	E.Coli O157:H7, Salmonella	BioControl
HECO157	ELISA	E.Coli O157:H7	3M Canada
TECRA	ELISA	E.Coli O157:H7, Listeria, Bacillus cereus diarrhoeal toxin, salmonella, Staphylococcus aureus	TECRA
Premier EHEC	ELISA	Verotoxin	Meridian Diagnostics Inc., Cincinnati, OH
Premier O157	ELISA	E coli O157	Meridian Diagnostics Inc., Cincinnati, OH
Ecoli Rapitest	ELISA	E. coli O157	Kalyx Biosciences, Ontario
Transia Card <i>E.coli</i> O157	ELISA	E.Coli O157:H7	Raisio Diagnostics
PATH Stick	Immunoprecipitation	Salmonella	LUMAC
Reveal	Immunoprecipitation	Salmonella	Neogen
Clear view	Immunoprecipitation	Salmonella	Unipath
Cholera SMART	Immunoprecipitation	Vibrio Cholerae	New Horizon
Bengal SMART	Immunoprecipitation	Vibrio Cholerae	New Horizon
Dynal	Immuno-magnetic separation	E. Coli O157, Listeria, Cryptosporidium, Giardia, etc.	Dynal (Oslo, Norway)

4. Nucleic acid-based methods

Spurred by technological developments and commercial profit motives, nucleic acid-based assays have become widely available as powerful tools to assist in the diagnosis and monitoring of foodborne pathogens. These methods are based on the detection of specific gene sequences (signature sequences) in the genotype of target organism. The sequences may be selected in such a way that they can detect a particular group, genus, species, or even the strain of microorganism. There are many DNA-based assay formats, but probes and nucleic acid amplification techniques are the most popular ones and have been developed commercially for detecting foodborne pathogens.

5. Mass spectrometry

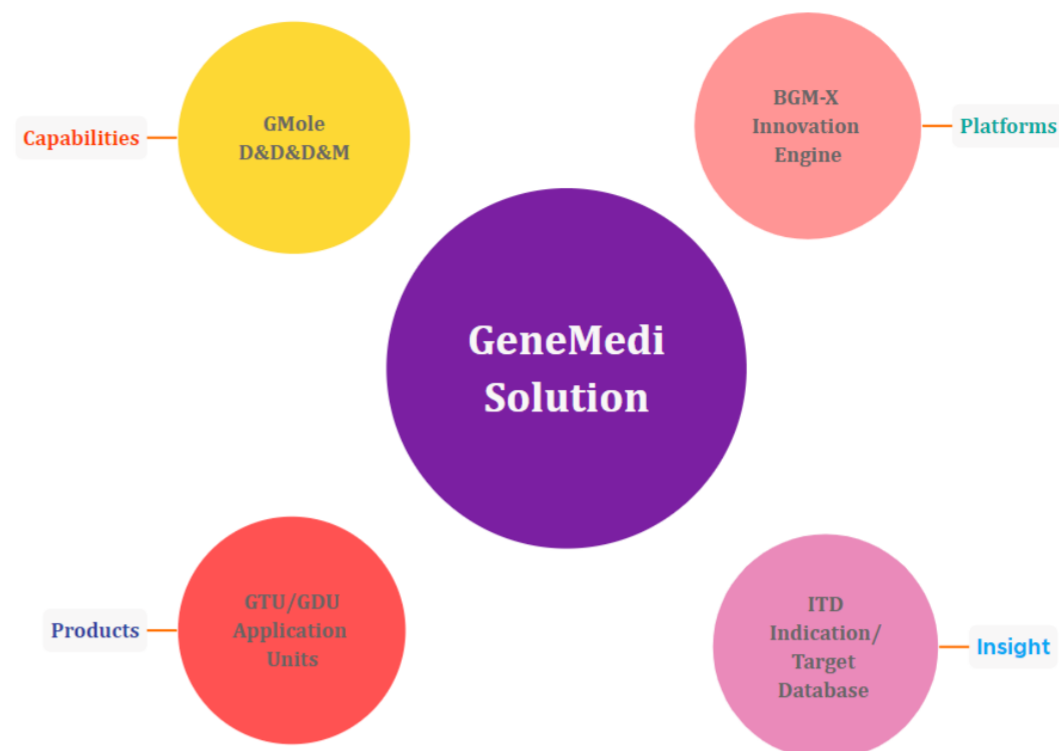
For years, mass spectrometry has been considered the most suitable analytical technique for the detection of multiple compounds in food, feed and water. Coupled to liquid chromatography (LC), high-performance LC and ultra-high performance LC (HPLC, UHPLC) or gas chromatographic (GC) separation with an ionization source such as electrospray (ESI), a large number of mass spectrometry-based methods were developed to comply with updated regulations. To effectively apply this approach, the structure of the compound must be characterized before its detection. Methods development can be time-consuming, and standards must be acquired to optimize compound-specific instrumental conditions, including transition selections, ion-source voltages, and collision energies. MRM methods are, therefore, unable to screen for unknown compounds

Small molecule detection-Hapten based competitive immunoassay

Small molecules such as pesticides, drugs, etc. are usually nonimmunogenic and hence do not elicit an immune response unless coupled with some macromolecules such as proteins. It is, therefore, required to modify these small substances (hapten) for coupling with macromolecules (carrier) so as to make a stable carrierhapten complex. Synthesis of hapten for linking with carrier proteins is the most important aspect of specific antibody generation against small molecules for immunoassay applications.

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