



Veterinary Drug Residues

Eurofins' Analytical Portfolio covers more than 250 Substances

Veterinary drugs are used within animal husbandry to prevent and cure diseases, but also to increase weight gain and to tranquilise during transportation.

The comprehensive risk-orientated veterinary drug residue testing package includes screening and confirmatory methods for more than 250 active substances, including antibiotics, antiparasitics, hormones, β -agonists, endocrine disruptors and non-steroidal anti-inflammatory drugs. The method portfolio from single substance to multi-class analysis and screening methods can be applied to all relevant food and feed matrices.

Matrices

- Meat (products)
- Fish (products) incl. fish oil and meal
- Egg and poultry
- Honey
- Milk and dairy products
- Convenience products
- Food ingredients
- Feed

Portfolio

Antibiotics

- Aminoglycosides
- Amphenicols incl. chloramphenicol
- Lactames
- Macrolides
- Nitrofurans incl. metabolites
- Polypeptide antibiotics
- Quinolones
- Sulfonamides
- Tetracyclines

Antiparasitics

- Avermectins
- Benzimidazoles
- Coccidiostats
- Nitroimidazoles
- Phenyl urea pesticides
- Triphenylmethane dyes
- Nicotine, Fipronil

Hormones

- β -Agonists
- Androgens
- Corticosteroids
- Estrogens
- Gestagens
- Resorcylic acid lactones
- Stilbenes
- Thyreostats

Non-steroidal anti-inflammatory drugs

- Diclofenac
- Phenylbutazone
- Others

Tranquilizer/Sedativa

- Azaperol
- Azaperon
- Carazolol
- Chlorpromazin
- Haloperidol
- Xylazin
- Others

Risk-oriented Testing

Given that the above substances present varying degrees of relevance for risk monitoring, Eurofins' highly-trained staff offers customised analytical scopes based on animal species, country of origin and the stage of sampling within the food supply chain, according to own expert knowledge as well as evaluations of the European Rapid Alert Systems for Food and Feed (RASFF).

Methods & Instruments

Besides established single class and single substance analyses we offer a risk-orientated multi-class analysis for the simultaneous determination of about 100 antibiotics and anti-parasitics from 10 different substance classes using LC-MS/MS.

With launching an innovative screening technique using High-Resolution-LC-MS, Eurofins offers its customers an even broader risk protection in the complex field of veterinary drug testing. The method covers a large set of targeted substances including degradation products with high selectivity and sensitivity. With its broad substance scope and the additional newly-created spectral libraries, the method efficiently minimises the risk of overlooking health hazards related to veterinary drugs.

