

# Antibiotic Residues in Food.

“Specialist Laboratory Services”

Due to their availability and low cost, antibiotics have been widely used in the dairy, livestock, poultry, aquaculture and honey production industries in various countries around the world. Some antibiotics have been prohibited for use in food animal production by a number of countries including Australia, Canada, USA and EU member states. This is due to concerns about possible carcinogenicity and mutagenicity.

Leeder Consulting has validated laboratory procedures which can assist importers, local producers, regulators and governments with detection of the following compounds in foods.

**Aminoglycosides.** - Streptomycin, Neomycin, Dihydrostreptomycin, Apramycin, Gentamycin.

**Beta lactams.** - Ampicillin, Penicillin G, Amoxicillin, Cloxacillin.

**Carbadox.**

**Chloramphenicol.**

**Macrolides.** - Erythromycin, Tylosin, Lincomycin, Tilmicosin.

**Nitrofurans metabolites.** - Furazolidone (AOZ), Furaladone (AMAZ), Nitrofurazone (SEM), Nitrofurantoin (AH).

**Nitrofurans parents.** - Nitrofurantoin, Furazolidone, Furaladone, 5-Nitro-2-Furaldehyde.

**Oxolinic acid.**

**Sulphonamides.** - Sulfamethazine (SMZ), Sulfathiazole (STZ), Sulfamerazine (SMR), Sulfadoxin (SDX), Sulfamonomethoxine Sodium Salt (SQX), Sulfamerazine (SMT), Sulfafurazole (SFZ), Sulfadiazine (SDZ), Sulfapyridine (SPY), Sulfamethizole (SMZL), Sulfaphenazole (SPZ), Sulfamonomethoxine (SMM), Sulfanilamide (SNL), Sulfamethoxy-pyridazine (SMP), Sulfisoxazole (SIZ), Sulfachloropyridazine (SCP), Sulfadimethoxine.

**Tetracyclines.** - Chlorotetracycline, Doxycycline, Oxytetracycline, Tetracycline.

**Trimethoprim.**

In addition to antibiotics, Leeder Consulting has validated procedures for a range of other tests including-

**Amino Acids, Anthelmintics, Additives, Pesticide Residues, Preservatives and Vitamins.**

Quality Assurance and Quality Control are primary considerations when undertaking food analysis. Leeder Consulting is AS/NZS ISO 9001 Certified, the laboratory is NATA Accredited, a Registered Quarantine Laboratory and “Appointed Analyst” under the Commonwealth Imported Food Control Act.

Liquid Chromatography / Mass Spectrometry (LC/MS) Methods are very useful in analysing for residues in food because of the high selectivity and sensitivity of MS Detection.

Leeder Consulting’s Food Laboratory is staffed by highly trained, qualified chemists and equipped with dedicated, state of the art equipment including the latest Agilent “Ion Trap” Mass Spectrometer.



Leeder Consulting offer a range of specialised high-tech, non-routine and on-site services. Access to leading edge technology and expertise in Australia and overseas guarantees results when and where you require. To discuss your requirements or for more information call us now.



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