



FOODSTUFFS AND FEED PACKAGE

Parameter	Technique
Chemistry	
Nutritional composition	
Moisture content	Gravimetry
Ash	Gravimetry
Crude Fiber	Gravimetry
Fat (Ether Extract)	Gravimetry
Fat, Acid Hydrolysis	Gravimetry
Crude Protein	Titrimetry
Carbohydrates	Calculation
Energy Value	Calculation
Energy Density	Calculation
Sodium Chloride/Salt	Titrimetry
Pepsin Digestibility	Kjeldahl
Fat Acidity	Titrimetry
Free Fatty Acids (FFA)	Titrimetry
Acid Insoluble Ash	Gravimetry
Water Insoluble Ash	Gravimetry
Alkalinity of water soluble ash	Titrimetry
Sulfated Ash	Gravimetry
Vitamin A	HPLC
Vitamin C	HPLC
Vitamin E	HPLC
Acid Value	Titrimetry
Total Sugars	Titrimetry
Peroxide Value	Titrimetry
Protein Dispersibility	Titrimetry
Protein Solubility	Titrimetry
pH	Potentiometric
Viscosity	Bostwick
Appearance	Physical
Taste	Organoleptic
Odour	Physical
Others Quality parameters	
Urease index	Potentiometric
Cooking Taste	Physical
Granulation pass/sieving	Gravimetry
Rancidity	Titrimetry

Starch	Polarimetry
Pesticides Residues	
OCP	GC-MS-MS
OPP	GC-MS-MS
OCP & OPP requested together	GC-MS-MS
Pyrethroids	GC-MS-MS
Elemental Analysis	
Aluminium (Al)	MP-AES
Arsenic (As)	GF-AAS
Antimony (Sb)	MP-AES
Beryllium (Be)	MP-AES
Boron (B)	MP-AES
Cadmium (Cd)	GF-AAS
Calcium (Ca)	MP-AES
Chromium (Cr)	MP-AES
Cobalt (Co)	MP-AES
Copper (Cu)	MP-AES
Iron (Fe)	MP-AES
Lead (Pb)	GF-AAS
Magnesium (Mg)	MP-AES
Manganese (Mn)	MP-AES
Mercury (Hg)	FIMS
Nickel (Ni)	MP-AES
Phosphorous (P)	MP-AES
Potassium (K)	MP-AES
Selenium (Se)	MP-AES
Silver (Ag)	MP-AES
Sodium (Na)	MP-AES
Tin (Sn)	MP-AES
Zinc (Zn)	MP-AES
Other Contaminants	
PCBs	GC-MS-MS
PAHs	GC-MS-MS
Cyanide	Spectrophotometric
Mycotixins(Total Aflatoxins)	ELISA
Mycotixins(Aflatoxins,; B1,B2,G1&G2)	HPLC
Others	
Veterinary Drugs/Antibiotics Residues	HPLC/LCMS
Amino Acid	HPLC/LCMS
Melamine Detection	
TDN, Total Digestible Nutrients	

Microbiology (Foodstuffs, swabs and animal feed)	
Bacillus spp	Spread plate
Bacillus Cereus	Spread plate
Clostridium Perfringens	Pour plate
Clostridium spp	Pour plate
E-coli (Escherichia Coli)	Pour plate

E-coli 0157:H7/NM (25g)	Magnetic beads
E-coli 0157:H7/NM (65g)	Magnetic beads
Enterobacteriaceae	Pour plate
Faecal Coliforms	Pour plate
Faecal Streptococci	Pour plate
Lactobacilli	Pour plate/Spread plate
Listeria Monocytogenes	Enrichment/streak plate
Listeria Monocytogenes	Spread plate
Listeria spp	Enrichment/streak plate
Pseudomonas aeruginosa	Spread plate
Pseudomonas spp	Spread plate
Salmonella	Enrichment/streak plate
Staphylococcus Aureus	Spread plate
Staphylococcus Coagulase	Spread plate
Sulphite Reducing Anaerobes	Pour plate
Total Anaerobic Count	Pour plate
Total Anaerobic Mesophylic Count	Pour plate
Total Anaerobic sporulated Count	Pour plate
Total Coliforms	Pour plate
Total Plate Count (TPC)	Pour plate
Total Aerobic Count (TAC)	Pour plate
Standard Plate Count (SPC)	Pour plate
Total Mesophylic Count (TMC)	Pour plate
Vibrio Cholera	Enrichment/streak plate
Yeast and Moulds	Spread plate