

ANNEXURE

List of recommended animal feed additives, premix and feed supplements for Import into India

Category of Product	Name of the Product	Remarks, if any
Amino Acids (Feed Grade)	L- Lysine Mono HCL 99% Feed Grade	
	L-Lysine Sulphate 65% Feed Grade	
	L-Lysine Sulphate 80% Feed Grade	
	Methionine 90% Feed Grade	
	DL-Methionine 99% Feed Grade	
	L-Methionine 99% Feed Grade	
	L-methionine 90%, Feed Grade	
	L-Valine 98% Feed Grade	
	Methyl Hydroxy Analog 88% Feed Grade	
	Methyl Hydroxy Analog Calcium salt 84% Feed Grade	
	L-Threonine 98.5% Feed Grade	
	L-Tryptophan 98% Feed Grade	
	Isoleucine 98.5% by titration method or 90% by HPLC method-Feed Grade	
	L- Lysine Monohydrochloride 98.5% Feed Grade	If genetically modified strain of bacteria is used to produce L-Lysine, its use shall be prohibited in view of possible presence of viable cells and DNA of the production strain in final product.
	L- Lysine Sulphate 70% Feed Grade	If genetically modified strains of bacteria are used to produce L-Lysine, its use shall be prohibited in view of possible presence of viable cells and DNA of the production strain in final product.
L-arginine 98.5% Feed Grade	The product is also being sold as feed grade in exporting country and certificate to this effect should be accompanied with each consignment	
Coated Amino acids for dairy		

Vitamin Premix (Feed Grade)	Vitamin A/D3 Feed Grade 1000:200	
	Vitamin A Acetate 1000 Feed Grade	
	Vitamin E 50% Feed Grade	
	Vitamin C coated 35% Feed Grade	
	Vitamin D3 0.5miu/gm Feed Grade	
	Vitamin B2-80% Feed Grade	
	Biotin 2% & 10% Feed Grade	
	Vitamin Premix Feed Grade (As per Formula)	
	Choline chloride 50% & 60% on Corn Cob Feed Grade	
	Vitamin C 35% Monophosphate Feed Grade	
	Vitamin B12 1% & 2% Feed Grade	As vitamin B12 is produced by fermentation by bacteria, it is necessary to ensure that the strain used for fermentation is safe and that there is no presence of antibiotic resistance genes, the viable cells of the production strain or their DNA in the final product.
25 Hydroxy Vitamin D3 1.25% Feed Grade		
Vitamins	Vitamin AD3	May be used as feed additives / premixes in different compositions in animal feed manufacturing. However, the import of <i>Active Pharmaceutical Ingredients (APIs)</i> shall be as per the extant rules under the Drugs and Cosmetics Act, 1940.
	Vitamin D	
	Vitamin A	
	Vitamin E	
	Vitamin K (MNB/MSB)	
	Vitamin B1	
	Vitamin B2	
	Vitamin B3 –Niacin	
	Vitamin B5- Calpan	
	Vitamin B6	
	Vitamin H - Biotin	
	Vitamin B9- Folic Acid	
	Vitamin B 12	

	Vitamin C (L-ascorbic acid/ L-ascorbic acid Phosphate)	
	Vitamin D 310	
Chelated Minerals	Glycinated Minerals	Composition varies with Manganese, Iron, Cobalt, Chromium, Selenium, Zinc, Copper, Iodine etc as glycinated blend or single mineral glycinate.
	Proteinated Minerals	Composition varies with Manganese, Iron, Cobalt, Chromium, Selenium, Zinc, Copper, Iodine etc as Proteinated blend or single mineral Proteinate
	Proteinated (Yeast based) Minerals	Composition varies with Manganese, Iron, Cobalt, Chromium, Selenium, Zinc, Copper, Iodine etc as Proteinated blend or single mineral Proteinate
	Amino acid chelated minerals	Composition varies with Manganese, Iron, Cobalt, Chromium, Selenium, Zinc, Copper, Iodine etc with methionine or lysine based chelated blend or single amino acid chelate.
Phosphates (Feed Grade)	Mono Calcium Phosphate (MCP) 22% Feed Grade	
	Di Calcium Phosphate (DCP) 18% Feed Grade	
	Sodium Hydrogen Phosphate 17% Feed Grade	
	Mono Potassium Phosphate 26% Feed Grade	
	Di Potassium Phosphate 17% Feed Grade	
	Cholesterol 95% Feed Grade	
Enzymes (Feed Grade)	Phytase 5000 - 65000 FTU per gram Feed Grade	The production strain (used to produce phytase) and its recombinant DNA should not be detected in products.

Antibiotic/ Antibacterial (Feed Grade)	Chlortetracycline (CTC) 15% Feed Grade	
	Clopidol 25% Feed Grade	
	Dichhlozuril 1% Feed Grade	
	Tylosyn Phosphate 10% premix Feed Grade	
Anticoccidials (Feed Grade)	Maduramycin 1% Feed Grade	Use for broiler chicken only and withdrawal period of five-seven days should be given before disposal/slaughter.
	Salinomycin 12% Feed Grade	
	Nicarbazine – upto 25% Feed Grade	Up to 25% can be used alone or in combination with Narasin (Feed Grade). However maximum dose of Nicarbazine should not exceed 125mg/kg of feed. Withdrawal period of 24 hours should be followed for use in poultry before slaughter.
	Monensin Sodium 20% Premix Feed Grade	Do not feed to laying chickens. Do not feed to chickens over 16 weeks of age. Do not allow horses, other equines, mature turkeys, or guinea fowl access to feed containing monensin.
	Monensin Sodium 40% Feed Grade	Do not feed to laying chickens. Do not feed to chickens over 16 weeks of age. Do not allow horses, other equines, mature turkeys, or guinea fowl access to feed containing monensin.
	Losolacid Sodium 15% Premix Feed Grade	
	Decoquate 6% Feed Grade	
	Dinitolmide 25% Feed Grade (DOT)	
	Clopidol 25% Feed Grade	
	Ethopabate 33% Feed Grade	

	Halofuginone 6 % Feed Grade	Not to be fed to layers. In broilers withdrawal period of five days should be given before slaughter.
	Narasin 10% (Feed Grade)	As per Codex Alimentarius Maximum residue limit (MRL) should not exceed 50 µg/kg liver, fat, 15 µg/kg in muscles.
	Robenidine 10% Premix (Feed Grade)	MRL (mg/kg wet tissue) should not exceed 0.80 for liver, 0.35 for kidney, 0.20 for muscle and 1.30 for skin/fat
Medicated Feed Additive (Feed Grade)	Flavophospholipol 4% & 8% Feed Grade	
	Tiamulin Hydrogen Fumerate – 10% Feed Grade	Withdrawal period of 72 hours should be followed for use in poultry before slaughter.
	Bamberomycin 4% and 8% - Feed Grade	Recommended at low dosages i.e. 1-2g/ton of feed in poultry
	Lincomycin 11% - Feed Premix	As per Codex Alimentarius Maximum Residue Limit (MRL) should not exceed 100 µg/kg fat, 200 µg/kg in muscles, 500 µg/kg in liver and kidney.
	Tiamulin 10% Feed Premix	Withdrawal period of 72 hours should be followed for use in poultry before slaughter.
	Virginiamycin 50% -Feed Grade	Withdrawal period of 5 days should be followed for use in poultry before slaughter.
	Kitasamycin 8% feed premix	Withdrawal period of 7 days should be followed for use in poultry before slaughter.
	Avilamycin 10% Feed Grade	As per Codex Alimentarius, Maximum residue limit (MRL) should not exceed 2000 µg/kg chicken fat/skin, and 300 µg/kg in

		liver.
	Spectinomycin 2.2% feed premix	As per Codex Alimentarius Maximum residue limit (MRL) should not exceed 2000 µg/kg in liver, egg, fat, 500 µg/kg in kidney, 500 µg/kg in muscles.
	Combination of Lincomycin 2.2% (feed premix) and Spectinomycin (feed premix).	As mentioned earlier
	Kitamycin 15% (Feed Grade)	Withdrawal period of 7 days should be followed for use in poultry before slaughter.
	Enramycin 8% Feed Grade	
Probiotics (Feed Grade)	<i>Bacillus amyoliquefaciens</i> Feed Grade Probiotics	
	<i>Bacillus licheniformis</i> feed grade	
	<i>Bacillus pumilus</i>	
	Dried <i>Lactobacillus acidophilus</i> fermentation product	
	Dried <i>Enterococcus faecius</i> fermentation product	
	Dried <i>Lactobacillus plantarum</i> fermentation product	
	<i>Enterococcus faecium</i> feed grade	
Minerals (Feed Grade)	Apocarotenoic ester Feed Grade	
	Betacarotene 10% Feed Grade	
Antioxidant	Propyl Gallate	
Exclusive Livestock Feed	Bypass Fat (triglyceride)	
Others (Feed Grade)	Antioxidant Premix – Mixture of BHA, BHT & Ethoxiquin	
	Toxin Binders Feed Grade	
	Acidifiers Feed Grade – Mixture of organic acids	
	Inactivated Dry yeast (37-40% Protein) Feed Grade	
	Active Dry Yeast - Feed Grade	
	Yeast Cell Wall – for use in feed	
	Mannan-Oligosaccharides (MOS) & Fructo-oligosaccharides (FOS)	
	HSCAS - Hydrogen Sodium Calcium Amino Silicate for feed use.	

Rumen protected/bypass amino acids – feed grade	
Dried distillers grains with soluble (DDGS)	
Cocktail enzymes – combination of enzymes for use in feed	
Organic mineral mixtures – feed grade	
Dried Bacillus subtilis fermentation products (Feed Grade)	
Mould inhibitors feed grade	
Organic selenium feed grade	
Organic trace minerals for feed	
Dicalcium phosphate (feed grade)	
Tricalcium Phosphate (feed grade)	
Nosiheptide 1% feed grade	
Bacteriophage (Lytic & Temperate)	
<i>Yucca schidigera</i> / <i>Yucca</i> plant extract	
Pellet Binder	To be used in Cattle Feed, Poultry Feed and Aqua Feed
Sodium Diformate	
Potassium Diformate	
Combination of fibre degrading enzymes (e.g. xylanase, beta-glucanase, cellulase, beta-mannanase, amalyse, lipase, protease etc.)	
Rumen Buffers	To be used in Cattle Feed
Salt licks – Mineral supplement for cattle (Calcium, Phosphorus, Cobalt, Copper, Iodine, Manganese, Zinc)	
Calcium salt of fatty acid (Oleic Acid, Palmitoleic Acid, Linolenic Acid)	
Co-Enzyme Q 10 (Ubiquinone) 5% & 10% Premix (Feed Grade)	
Calcium Butyrate coated (Feed Grade)	
Sodium Butyrate Coated 30% (Feed Grade)	
Bypass fats based on fatty acid FFA > 80%	
Molasses Dried yeast – for animal feed	
Selenium yeast Premix (Feed Grade)	
Bacillus substilis Feed Grade	

	Algae based complimentary feed for fish (Azolla, Chlorella, Filamentous Algae)	
	Mixture of essential oil with plant extracts and spices (Thyme, Oregano, Rosemary, Thymol, Cinnamon)	
	Fumaric Acid	
	Saponine 2-2.5%	
	Calcium salts made from palm oil fatty acids, soya oil, sunflower oil and corn oil	
	Betaine HCL 93-98%	
	Deoiled Lecithin 90% on silicon Dioxide base	
	Betaine Anhydrous 96%	
	Bypass fat (fatty acid based)	
	Conjugated linolenic acid 10% Coated with bypass fat	
	Tributylin 50%	
For exclusively use in fish feed (Feed Grade)	Magnesium Sulphate (Anhydrous)	

Note:

- 1. Due to emergence of antimicrobial resistance in animal and human beings, henceforth, the following animal feed additives / feed supplements are not recommended for import into India:-**

Category of Product	Name of the Product	Remarks
Antibiotic/ Antibacterial (Feed Grade)	Zinc Bacitracin	Earlier, these products were not recommended in the list issued on 13 th August, 2020.
	BMD – Bacitracin Methyl Disalicylate	
Anticoccidals (Feed Grade)	Any combination of Maduramycin and Nicarbazine	It has been reviewed in the meeting dated 17 th May, 2022 of subcommittee to 'assess and provide recommendations on submission of veterinary vaccines/biological/drugs for policy input' under the Expert Committee on Animal Health (ECAH).

	Maduramycin>1%	Reviewed in the meeting dated 17 th May, 2022 of subcommittee to 'assess and provide recommendations on submission of veterinary vaccines/biological/drugs for policy input' under the Expert Committee on Animal Health (ECAH).
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2. **The Maximum Residue Limit / Tolerance limit of above recommended animal feed additives and feed supplements in the final article of food, wherever applicable, shall be as per the Food Safety and Standards (Contaminants, toxins and Residues) Second Amendment Regulations, 2018.**
