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POLICY

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Lists of Undesirable Substances and Limited Uses of Feed Ingredients

Report Categories:

Grain and Feed

FAIRS Subject Report

Sanitary/Phytosanitary/Food Safety

Livestock and Products

SP2 - Prevent or Resolve Barriers to Trade that Hinder

U.S. Food and Agricultural Exports

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Report Highlights:

This report contains an unofficial translation of MinAg [Order No. 1490-13](#), fixing the list and the maximum levels of undesirable substances in animal feed as well as the list and the limits of use of additives, premixes, and supplements intended for animal feed. The measure was previously notified to the WTO as [G/SPS/N/MAR/36](#) and [G/SPS/N/MAR/37](#), noting Morocco's intention to bring their regulations into conformity with Europe.

Order of the Minister of Agriculture and Maritime Fisheries [No. 1490-13](#) of Jumada II 22, 1434 (May 3, 2013) fixing the list and the maximum levels of the undesirable substances in animal feed as well as the list and the limits of use of additives, premixes and supplements intended for animal feed.

[\(BO. n° 6184 of September 05, 2013, page 2297\)](#)

The Minister of Agriculture and Maritime Fisheries,

Having regard to [Decree No. 2-10-473 of the Chaoual 7, 1432 \(September 6, 2011\) adopted for the application of certain provisions of the Law No. 28-07 relating to the safety of food products](#), in particular 2) and 4) of article 54,

Order:

First Article. - For the purposes of this Order, means by "**undesirable substance**", any substance or any product, other than pathogens, that is in or on the feed product and that poses a potential risk for animal or human health or the environment or is likely to adversely affect livestock production.

Article 2. - In accordance with 2) in article 54 of the above-mentioned Decree [No. 2-10-473](#), feedstuffs produced domestically, imported or intended for export must not contain undesirable substances listed in accordance with Annex I to this Order exceeding the maximum levels mentioned in the said list.

For substances not referred to in the above-mentioned list and which are considered by *Codex Alimentarius* as undesirable substances, their presence in feedstuffs produced domestically, imported or intended for export must not exceed limits provided for by *Codex Alimentarius*.

Article 3. - In accordance with 4) in article 54 of the above-mentioned Decree [No. 2-10-473](#), animal feed must not contain additives, premixes, compound feed, and feed supplements not listed on the list set out in Annex II of this Order or exceeding the limits mentioned in the said list.

Article 4. - This Order will be published in the Official Gazette.

Rabat, Jomada II 22, 1434 (May 3, 2013)
The Minister of Agriculture and Maritime Fisheries,
AZIZ AKHANNOUCH

ANNEX I

Setting the list of the undesirable substances and their maximum levels in animal feed

Substances	Products intended for animal feed	Max limit in mg/kg (ppm) of feed @ 12% moisture	
I- MYCOTOXINS			
1 Aflatoxin B1	Raw material for animal feed	0.02	
	Complementary and compound feed, <i>except:</i> - Compound feed for dairy cattle and calves, dairy sheep and lambs, dairy goats and kids, piglets and young poultry animals,	0.01 0.005 0.02	
2. Rye ergot (<i>Claviceps purpurea</i>)	Feed material and compound feed	1 000	
II- ENDOGENOUS TOXINS OF PLANTS			
1. Free Gossypol	Raw material for animal feed, <i>except:</i> - Cottonseed, - Cottonseed meal and cottonseed flour.	20 5 000 1 200 20	
	Compound feed, <i>except:</i> - Compound feed for bovines (except calves), - Compound feed for sheep (except lambs) and goats (except kids),	500 300 100	
		60	
	2 Hydrocyanic acid	Raw material for animal feed, <i>except:</i> - Flaxseed - Flax meal - Manioc products and almond meal.	50 250 350 100
		Compound feed, <i>except:</i> - Compound feed for young chickens (< 6 weeks).	50 10
3 Theobromine	Compound feed, <i>except:</i> - Compound feed for pigs, - Compound feed for dogs, rabbits, horses and fur-bearing animals.	300 200 50	
	4. Vinylthiooxazoli-done (5-viny-loxazolidine-2-thione)	Compound feed for poultry, <i>except:</i> - Compound feed for laying hens.	1 000 500
5. Volatile mustard oil (1)	Raw material for animal feed, <i>except:</i> - Rapeseed meal.	100 4 000 150	
	Compound feed, <i>except:</i> - Compound feed for bovines (except calves), sheep (except lamb) and goats (except kids), - Compound feed for pigs (except piglets) and poultry.	1 000 500	
	⁽¹⁾ The maximum levels are expressed as allyl isothiocyanate.		
III- HARMFUL BOTANICAL IMPURITIES			
1. Weed seeds and unground and uncrushed fruits containing alkaloids, glucosides or other toxic substances separately or in combination including - <i>Datura</i> sp.	Raw material for animal feed and compound feed.	3 000	

2. <i>Crotalaria</i> spp.	Raw material for animal feed and	100
3. Seeds and husks from <i>Ricinus communis</i> L., <i>Croton tiglium</i> L. and <i>Abrus precatorius</i> L. as well as their processed derivatives, separately or in combination <i>Croton tiglium</i> L. and <i>Abrus precatorius</i> L. as well as their processed derivatives ⁽¹⁾ , separately or in combination.	Raw material for animal feed and compound feed.	10 ⁽²⁾
4. Unhusked beech mast - <i>Fagus sylvatica</i> L. 5. Purgere - <i>Jatropha curcas</i> L. 6. Indian mustard - <i>Brassica juncea</i> (L.) Czern. and Coss. ssp. <i>integrifolia</i> (West.) Thell. 7. Sarepte – mustard <i>Brassica juncea</i> (L.) Czern. and Coss. ssp. <i>juncea</i> . 8. Chinese mustard - <i>Brassica juncea</i> (L.) Czern. and Coss. ssp. <i>Juncea</i> var. <i>lutea</i> Batalin 9. Black mustard - <i>Brassica nigra</i> (L.) Koch 10. Abyssinian mustard (from Ethiopia)- <i>Brassica carinata</i> A. Braun	Raw material for animal feed and compound feed.	Seeds and fruit of the plant species listed opposite as well as their processed derivatives may only be present in feed in trace amounts not quantitatively determinable.
11. Seeds of <i>Ambrosia</i> spp.	Raw material for animal feed, <i>except:</i> - Millet (grains of <i>Panicum miliaceum</i> L.) and sorghum (grains of <i>Sorghum bicolor</i> (L) Moench and <i>Sorghum intrans</i> (L.) Gaertn.) not directly fed to animals	50 200 50
⁽¹⁾ In so far determinable by analytical microscopy. ⁽²⁾ Includes also seed husk fragments.		

ANNEX II

Fixing the limits of use of additives, premixes, and supplements allowed in animal feed

Additive	Composition, chemical formula, description	Species or animal category	Max age	Min limit (mg/kg compound feed)	Max limit (mg/kg compound feed)	Other provisions
BINDING, ANTI-CAKING, AND COAGULANT AGENTS						
Citric acid	$C_6H_8O_7$	All	-	-	-	
Sodium, potassium and calcium stearates	$C_{18}H_{35}O_2Na$ $C_{18}H_{35}O_2K$ $C_{36}H_{70}O_4Ca$	All (id)	-	-	-	
Silicic acid, rushed and dried	-	All	-	-	-	
Colloidal silica	-	All	-	-	-	
Silicate of sodium and aluminum, synthetic	-	All	-	-	-	
Bentonite - montmorillonite	-	All	-	-	20,000	All animal feed. Mixture with additives from the groups of "antibiotics", "growth factors", "cocciostats and other medicinal substances" is prohibited except in the case of: monensin-sodium, narasin, lasalocid-sodium, flavophospholipol, salinomycin sodium, nicarbazine and robenidine. Indication on the label of the specific name of the additive.
Vermiculite	Natural silicate of magnesium, aluminum and iron, expanded by heat, asbestos-free	All	-	-	-	All feed
Sepiolite	Silicate of hydrated magnesium of sedimentary origin containing at least 60% sepiolite and maximum 30% montmorillonite, asbestos-free	All	-	-	20,000	All feed
Sepiolitic clay	Silicate of hydrated magnesium of sedimentary origin containing at least 40% sepiolite and 25% illite, asbestos-free	All	-	-	20,000	All feed

Additive	Composition, chemical formula, description	Species or animal category	Max age	Min limit (mg/kg compound feed)	Max limit (mg/kg compound feed)	Other provisions
Natrolite-phonolite	Natural mixture of aluminum silicates, alkalines and alkaline-earth and aluminum hydrosilicates, natrolite (43-46.5%) and feldspar	All	-	-	25,000	All feed
Clinoptilolite of sedimentary origin	Hydrated calcium aluminosilicate of sedimentary origin containing at least 80% clinoptilolite and maximum 20% clay minerals, free of fibers and quartz	Pigs for fattening	-	-		All feed
		Chickens for fattening	-	-	20,000	Chickens for fattening
		Turkeys for fattening	-	-	20,000	Turkeys for fattening
		Bovines	-	-	20,000	Bovines
		Salmon	-	-	20,000	Salmon
EMULSIFIERS, STABILIZERS, THICKENERS AND GELLING AGENTS						
Lecithin	-	All	-	-	-	All feed
Propylene glycol alginate (1,2- propanediol alginate)	-	All	-	-	-	All feed
Xanthan gum	-	All	-	-	-	All feed
Sorbitol	-	All	-	-	-	All feed
Mannitol	-	All	-	-	-	All feed
Glyceryl polyethylene glycol ricinoleate	-	All	-	-	-	All feed
PRESERVATIVES						
Sorbic acid	C ₆ H ₈ O ₂	All	-	-	-	All feed
Formic acid	CH ₂ O ₂	All (id)	-	-	-	Indicate in the instructions for use: "It is prohibited to use formic acid alone or when it forms more than 50% by weight of the mixture with other acids for aerobic acid preservation of raw cereals with a high moisture content."
Sodium formate	CHO ₂ Na	All	-	-	-	All feed
Calcium formate	C ₂ H ₂ O ₄ Ca	All	-	-	-	All feed
Acetic acid	C ₂ H ₄ O ₂	All	-	-	-	All feed
Acetic acid	C ₂ H ₄ O ₂	All	-	-	-	All feed
Calcium acetate	C ₄ H ₆ O ₄ Ca	All	-	-	-	All feed
Lactic acid	C ₃ H ₆ O ₃	All	-	-	-	All feed
Propionic acid	C ₃ H ₆ O ₂	All	-	-	-	All feed
Sodium propionate	C ₃ H ₅ O ₂ Na	All	-	-	-	All feed
Calcium propionate	C ₆ H ₁₀ O ₄ Ca	All	-	-	-	All feed
Ammonium propionate	C ₃ H ₉ O ₂ N	All	-	-	-	All feed
Ammonium formate	CH ₅ O ₂ N	All	-	-	-	All feed
Ammonium formate	CH ₅ O ₂ N	All	-	-	-	All feed
Fumaric acid	C ₄ H ₄ O ₄	All	-	-	-	All feed
Citric acid	C ₆ H ₈ O ₇	All	-	-	-	All feed

Additive	Composition, chemical formula, description	Species or animal category	Max age	Min limit (mg/kg compound feed)	Max limit (mg/kg compound feed)	Other provisions
Acid orthophosphoric	H ₃ PO ₄	All	-	-	-	All feed
Propyl gallate	C ₁₀ H ₁₂ O ₅	All	-	-	100 alone or together with E311 or E312	All feed
Butylhydroxyanisole (BHA)	C ₁₁ H ₁₆ O ₂	All except dogs	-	-	150 alone or together with E321 and/or E324	All feed
Butylhydroxytoluene (BHT)	C ₁₅ H ₂₄ O	All except dogs	-	-	150 alone or together with E320 and/or E324	All feed
Ethoxyquin	C ₁₄ H ₁₉ ON	All except dogs	-	-	100 alone or together with E320 or E321	All feed
VITAMINS						
Vitamin A	-	Chickens for fattening	-	-	13,500	All feed except for young animals
		Ducks for fattening	-	-	13,500	All feed except for young animals
		Turkeys for fattening	-	-	13,500	All feed except for young animals
		Lambs for fattening	-	-	13,500	All feed except for young animals
		Pigs for fattening	-	-	13,500	All feed except for young animals
		Bovines for fattening	-	-	13,500	All feed except for young animals
		Calves for fattening	-	-	25,000	Replacers only
		Other	-	-	-	All feed
Vitamin D ₂	-	Pigs	-	-	2,000	Simultaneous administration with vitamin D ₃ prohibited
		Piglets	-	-	10,000	Replacers only Simultaneous administration with vitamin D ₃ prohibited
		Bovine	-	-	4,000	Simultaneous administration with vitamin D ₃ prohibited
		Sheep	-	-	4,000	Simultaneous administration with vitamin D ₃ prohibited
		Calves	-	-	10,000	Replacers only Simultaneous administration with vitamin D ₃ prohibited

Additive	Composition, chemical formula, description	Species or animal category	Max age	Min limit (mg/kg compound feed)	Max limit (mg/kg compound feed)	Other provisions
		Equine	-	-	4,000	Simultaneous administration with vitamin D ₃ prohibited
Vitamin D3	-	Bovine	-	-	4,000	Simultaneous administration with vitamin D ₂ prohibited
		Pigs	-	-	2,000	Simultaneous administration with vitamin D ₂ prohibited
		Sheep	-	-	4,000	Simultaneous administration with vitamin D ₂ prohibited
		Calves	-	-	10,000	Simultaneous administration with vitamin D ₂ prohibited
		Equine	-	-	4,000	Simultaneous administration with vitamin D ₂ prohibited
		Chicken for fattening	-	-	5,000	Simultaneous administration with vitamin D ₂ prohibited
		Turkeys	-	-	5,000	Simultaneous administration with vitamin D ₂ prohibited
Vitamin K	-	All	-	-	-	All feed
Vitamin B1- Thiamine hydrochloride	-	All	-	-	-	All feed
Vitamin B1 - Thiamine mononitrate	-	All	-	-	-	All feed
Vitamin B2 - Riboflavin	-	All	-	-	-	All feed
Vitamin B2 - Riboflavin-5'-phosphate ester monosodium salt	-	All	-	-	-	All feed
Vitamin C – L-ascorbic acid	-	All	-	-	-	All feed
Vitamin C- Sodium L-ascorbate	-	All	-	-	-	All feed
Vitamin C - Calcium L-ascorbate	-	All	-	-	-	All feed
Vitamin C- 6-palmityl-L-ascorbic acid	-	All	-	-	-	All feed
Pantothenic acid - D- pantothenate of calcium	-	All	-	-	-	All feed
Pantothenic acid - D-panthenol	-	All	-	-	-	All feed
Nicotinic Acid (niacin)	-	All	-	-	-	All feed
Nicotinic Acid - Acid Amide (nicotinamide-niacinamide(NA))	-	All	-	-	-	All feed
Folic acid	-	All	-	-	-	All feed
Para-amino acid	-	All	-	-	-	All feed

Additive	Composition, chemical formula, description	Species or animal category	Max age	Min limit (mg/kg compound feed)	Max limit (mg/kg compound feed)	Other provisions
Benzoic (pABA)						
Biotin-D-(+) - biotin	-	All	-	-	-	All feed
Carnitine – L-carnitine	-	All	-	-	-	All feed
Betaine	-	All	-	-	-	All feed
25-hydroxy-cholecalciferol	C ₂₇ H ₄₄ O ₂ .H ₂ O	Chickens for fattening	-	-	0.100	1. Additive shall be incorporated in feed via the use of a premix. 2. Maximum quantity of the combination of 25-hydroxycholecalciferol and vitamin D3 (cholecalciferol) per kg of compound feed: ≤ 0.125 mg (136) (equivalent to 5,000 IU of vitamin D3) for chickens for fattening and turkeys for fattening. ≤ 0.080 mg for the remaining poultry, ≤ 0.050 mg for pigs. 3. The simultaneous use of vitamin D2 is not allowed. 4. Ethoxyquin content to be indicated on the label 5. Safety measure: wear respiratory protection.
		Turkeys for fattening	-		0.100	
		Other poultry			0.080	
Vitamin E / RRR-alpha-tocopheryl acetate	C ₃₁ H ₅ O ₃	All	-	-	-	-
Vitamin B6 / pyridoxine hydrochloride	C ₈ H ₁₁ NO ₃ .HCl	All	-	-	-	-
OLIGO ELEMENTS						
Ferrous carbonate	FeCO ₃	All	-	-	Sheep: 500 (total)	
Ferrous chloride, tetrahydrate	FeCl ₂ .4H ₂ O	All	-	-		
Ferric chloride, hexahydrate	FeCl ₃ .6H ₂ O	All	-	-		
Ferrous citrate, hexahydrate	Fe ₃ (C ₆ H ₅ O ₇) ₂ .6 H ₂ O	All	-	-	Pets: 1250 (total)	
Ferrous fumarate	FeC ₄ H ₂ O ₄	All	-	-		
Ferrous lactate, trihydrate	Fe(C ₃ H ₅ O ₃) ₂ .3 H ₂ O	All	-	-	Piglets up to one week before weaning: 250 mg/day	
Ferric oxide	Fe ₂ O ₃	All	-	-		
Ferrous sulphate, monohydrate	FeSO ₄ .H ₂ O	All	-	-		
Ferrous sulfate, heptahydrate	FeSO ₄ .7H ₂ O	All	-	-	Other: 750 (total)	
Ferrous chelate of amino acid, hydrated	(Fe(x) ₁₋₃ .nH ₂ O)	All	-	-		
Chelated ferrous glycine, hydrated	Fe(x) ₁₋₃ .nH ₂ O (x = anion synthetic glycine)	All	-	-		

Additive	Composition, chemical formula, description	Species or animal category	Max age	Min limit (mg/kg compound feed)	Max limit (mg/kg compound feed)	Other provisions
Calcium iodate, hexahydrate	Ca(IO ₃) ₂ ·6H ₂ O	All	-	-	Equine: 4 (total)	
Calcium iodate, anhydrous	Ca(IO ₃) ₂	All	-	-	Fish: 20 (total)	
Sodium iodure	NaI	All	-	-	Dairy cows and laying hens: 5 (total) Other: 10 (total)	
Potassium iodure	KI	All	-	-		
Cobalt chloride, hexahydrate	CoCl ₂ ·6 H ₂ O	All	-	-	All: 2 (total)	
Cobalt sulfate, heptahydrate	CoSO ₄ ·7H ₂ O	All	-	-		
Cobalt sulfate, monohydrate	CoSO ₄ ·H ₂ O	All	-	-		
Copper methionate	Cu(C ₅ H ₁₀ NO ₂ S) ₂	All	-	-	Bovines: 1. Prior to rumination: - milk replacers: 15 (total) - other compound feeds: 15 (total) 2. Other: 35 (total) Sheep: 15 (total) Fish: 25 (total) Crustaceans: 50 (total) Other: 25 (total)	
Cupric oxide	CuO	All	-	-		
Cupric sulphate, pentahydrate	CuSO ₄ ·5H ₂ O	All	-	-		
Cupric chelate of amino acids hydrate	Cu (x) ₁₋₃ nH ₂ O (x = anion of any amino acid derived from soybean protein hydrolyzed) Molecular weight less than 1,500	All	-	-		
Chelated copper of glycine, hydrated	Cu(x) ₁₋₃ nH ₂ O (x = anion synthetic glycine)	All	-	-		
Manganeux carbonate	MnCO ₃	All	-	-		Fish: 100 (total) Other: 150 (total)
Manganese chloride, tetrahydrate	MnCl ₂ ·4H ₂ O	All	-	-		
Acid manganese phosphate, trihydrate	MnHPO ₄ ·3H ₂ O	All	-	-		
Manganous oxide	MnO	All	-	-		
Manganese sulfate of amino acids hydrate		All	-	-		
Zinc oxide	ZnO	All	-	-	150 (total)	
Zinc sulfate	ZnS	All	-	-		
Zinc chelate of amino acids hydrate		All	-	-		
Molybdate of ammonium (NH ₄)	Mo ₇ O ₂₄ ·4H ₂ O ₆	All	-	-		
Sodium Selenite	Na ₂ SeO	All	-	-		

Additive	Composition, chemical formula, description	Species or animal category	Max age	Min limit (mg/kg compound feed)	Max limit (mg/kg compound feed)	Other provisions
Selenomethionine	Selenomethionine produced by <i>Saccharomyces cerevisiae</i> CNCM I-3399 (Selenized yeast inactivated)	All			0.50 (total)	1. Additive shall be incorporated in feed as a premix. 2 For safety of the users: wearing a respiratory protection, goggles and safety gloves during handling.
AMINO ACIDS, THEIR SALTS AND ANALOGUES						
DL-methionine	CH ₃ S(CH ₂) ₂ - CH(NH ₂) - COOH	All	-	-	-	-
L - lysine	NH ₂ - (CH ₂) ₄ - CH(NH ₂) - COOH	All	-	-	-	-
L - threonine	CH ₃ CH(OH) CH(NH ₂) - COOH	All	-	-	-	-
L - tryptophan	(C ₈ H ₅ NH) - CH ₂ - CH(NH ₂) - COOH	All	-	-	-	-
Methionine hydroxyl analogue	CH ₃ S(CH ₂) ₂ - CH (OH) - COOH	All	-	-	-	-
L-Histidine mono-hydrochloride monohydrate	C ₃ H ₃ N ₂ -CH ₂ .CH(NH ₂) - COOH · HCl · H ₂ O	All	-	-	-	-
ZOOTECNICAL ADDITIVES						
6 - phytase	Preparation of 6-phytase produced by <i>Aspergillus oryzae</i> (DSM 17594)	Poultry for fattening	-	-	1,500 FYT	-
		Poultry for laying	-	-	600 FYT	-
3 - phytase	Preparation of 3-phytase produced by <i>Aspergillus niger</i> (CBS 114.94)	Piglets	2 month	500 FTU	-	1. In the mode of use of the additive and the premix, indicate the storage life and stability in pelleting. 2. Recommended dose per kg of compound feed: 500 FTU. 3. To use in compound feed containing more than 0.23% phytin bound phosphorus.
		Chickens for fattening	-	375 FTU	-	
		Chickens for laying	-	250 FTU	-	
		Turkeys for fattening	-	250 FTU	-	
Endo-1, 4-β-xylanase	Endo-1,4 beta-xylanase EC 3.2.1.8 produced by <i>Bacillus subtilis</i> (LMG S - 15136)	Chickens for fattening	-	-	250 FTU	-
Endo-1,4-β-glucanase	Preparation of endo-1,4-beta-glucanase produced by <i>Bacillus subtilis</i> (IMI SD 142)	Chickens for fattening	-	500 CU	-	1. Recommended dose per kg of compound feed: 500-1,000 CU. 2. To be used in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 40% barley.
COCCIDIOSTAT GROWTH FACTORS						
Decoquinate 60.6 g/kg	C ₂₄ H ₃₅ O ₅	Chickens for	-	20	40	Administration banned 3 days at least before the

Additive	Composition, chemical formula, description	Species or animal category	Max age	Min limit (mg/kg compound feed)	Max limit (mg/kg compound feed)	Other provisions
		fattening				slaughter. Mention this requirement on compound feed labels.
Monensin-sodium	C ₃₆ H ₆₁ O ₁₁ Na	Chickens for fattening	-	100	125	Administration banned a day before the slaughter. Indicate in the requirement for use: «Dangerous for equine.» «This feed contains an ionophore: avoid simultaneous administration with tiamulin and monitor for possible adverse reactions when used concurrently with other medicinal substances.»
		Chickens for laying	16 weeks	100	120	
		Turkeys	16 weeks	60	100	
66g robenidine hydrochloride	C ₁₅ H ₁₃ C ₁₂ N ₅ .HCl,	Chickens for fattening	-	30	36	Administration banned five days before slaughter.
		Turkeys	-	30	36	Administration banned five days before slaughter.
Lasalocid A sodium	C ₃₄ H ₅₃ O ₈ Na,	Chickens for fattening	-	75	125	Administration banned five days before slaughter. Mention this requirement on the compound feed labels.
		Chickens for laying	16 weeks	75	125	Indicate in the instructions for use: «Dangerous for equine» «This feed contains an additive of the group the ionophores: Simultaneous administration with certain drugs (for example, tiamulin) can be against indications.»
Halofuginone	trans-7-bromo-6-chloro-3-(3-(3-hydroxy-2-piperidyl)-acetyl)-4(3H)-quinazolinone	Chickens for fattening	-	2	3	Administration banned five days before slaughter. Mention this requirement on the compound feed labels.
		Turkeys	12 weeks	2	3	Administration banned five days before slaughter. Mention this requirement on the compound feed labels.

Additive	Composition, chemical formula, description	Species or animal category	Max age	Min limit (mg/kg compound feed)	Max limit (mg/kg compound feed)	Other provisions
Narasin	C ₄₃ H ₇₂ O ₁₁	Chickens for fattening	-	60	70	Mention this requirement on the compound feed labels. Indicate in the instructions for use: «Dangerous for equine, turkeys and rabbits. » «This feed contains an additive of the group the ionophores: Simultaneous administration with certain drugs (for example, tiamulin) can be against indications.»
Salinomycin-sodium	C ₄₂ H ₆₉ O ₁₁ Na ,	Chickens for fattening	-	60	70	Administration banned a day before the slaughter. Indicate in the requirement for use: «Dangerous for equine, turkeys.» «This feed contains an additive of the group the ionophores: Simultaneous administration with certain drugs (for example, tiamulin) can be against indications.»
		Chickens for laying	12 weeks	50	50	Mention this requirement on the compound feed labels. Indicate in the requirement for use: «Dangerous for equine, turkeys.» «This feed contains an additive of the group the ionophores: Simultaneous administration with certain drugs (for example, tiamulin) can be against indications.»
Maduramicin ammonium	C ₄₇ H ₈₃ O ₁₇ N	Turkeys	16 weeks	5	5	Administration banned five days minimum before the slaughter. Mention this requirement on the compound feed labels. Indicate in the requirement for use: «Dangerous for equine» «This feed contains an additive of the group the ionophores: Simultaneous administration with certain drugs (for example, tiamulin) can be against

Additive	Composition, chemical formula, description	Species or animal category	Max age	Min limit (mg/kg compound feed)	Max limit (mg/kg compound feed)	Other provisions
						indications.»
Diclazuril	C ₁₇ H ₉ Cl ₃ N ₄ O ₂ ,	Chickens for laying	16 weeks	1	1	-
		Rabbits	-	1	1	Administration banned a day before the slaughter.
		Chickens for fattening	-	1	1	1. Additive shall be incorporated in feed as a premix. 2. Do not mix diclazuril with other coccidiostats. 3. Safety measure: wear respiratory protection, goggles and safety gloves during handling. 4. The authorization holder shall plan and execute a surveillance plan for bacterial resistance of <i>Eimeria spp.</i>
		Turkeys for fattening	-	-	-	-
Semduramicin sodium	C ₄₅ H ₇₆ O ₁₆ Na	Chickens for fattening	-	20	25	Banned five days before slaughter. Simultaneous use of semduramicin and tiamulin may induce a temporary reduction of feed and water intake.
MICROORGANISMS						
<i>Saccharomyces cerevisiae</i> .	Preparation of <i>Saccharomyces cerevisiae</i> content at least: 5 x 10 ⁹ CFU/g	Bovines for fattening	-	4 x 10 ⁹	8 x 10 ⁹	The storage temperature, storage life, and stability to pelleting shall be indicated in the directions for use of the additive, premix, and compound feed. In the directions for use, insert the following statement: «The quantity of <i>Saccharomyces cerevisiae</i> in the daily ration must not exceed 2.5 x 10 ⁹ CFU per 100 kg animal weight and

Additive	Composition, chemical formula, description	Species or animal category	Max age	Min limit (mg/kg compound feed)	Max limit (mg/kg compound feed)	Other provisions
						0.5 x 10 ¹⁰ CFU per additional 100 kg animal weight.»
		Dairy cows	-	4 x 10 ⁸	2 x 10 ⁹	The storage temperature, storage life, and stability to pelleting shall be indicated in the directions for use of the additive, premix, and compound feed. The quantity of <i>Saccharomyces cerevisiae</i> in the daily ration must not exceed 5.6 x 10 ⁹ CFU per 100 kg of animal weight. Add 8.75 x 10 ⁹ CFU per additional 100 kg of animal weight.
		Calves	6 month	2 x 10 ⁸	2 x 10 ⁹	-
		Bovines for fattening	-	1.7 x 10 ⁸	1.7 x 10 ⁸	-
		Dairy cows	-	5 x 10 ⁷	3.5 x 10 ⁸	-
<i>Saccharomyces cerevisiae</i> . CNCM I-1077	Preparation of <i>Saccharomyces cerevisiae</i> content at least: granular powder: 2 x 10 ¹⁰ CFU/g coated: 1 x 10 ¹⁰ CFU/g	Dairy cows	-	4 x 10 ⁸	2 x 10 ⁹	The storage temperature, storage life, and stability to pelleting shall be indicated in the directions for use of the additive, premix, and compound feed. The quantity of <i>Saccharomyces cerevisiae</i> in the daily ration must not exceed 8.4 x 10 ⁹ CFU per 100 kg of animal weight. Add 1.8 x 10 ⁹ CFU per additional 100 kg of animal weight.
		Bovines for fattening	-	5 x 10 ⁸	1.6 x 10 ⁹	The storage temperature, storage life, and stability to pelleting shall be indicated in the directions for use of the additive, premix, and compound feed. The quantity of <i>Saccharomyces cerevisiae</i> in the daily ration must not exceed 4.6 x 10 ⁹ CFU per 100 kg of animal weight. Add 2 x 10 ⁹ CFU per additional 100 kg of animal

Additive	Composition, chemical formula, description	Species or animal category	Max age	Min limit (mg/kg compound feed)	Max limit (mg/kg compound feed)	Other provisions
<i>Pediococcus acidilactici</i> CNCM MA 18/5M	Preparation of <i>Pediococcus acidilactici</i> content at least: 1×10^{10} CFU/g	Chickens for fattening	-	1×10^9	1×10^{10}	weight. The storage temperature, storage life, and stability to pelleting shall be indicated in the directions for use of the additive, premix, and compound feed. Can be used in compound animal feed containing the following authorized coccidiostats: decoquinate, narasin, halofuginone, salinomycin sodium, maduramycine ammonium, diclazuril.