

هيئة التقييس لدول مجلس التعاون لدول الخليج العربية GCC STANDARDIZATION ORGANIZATION (GSO)

مشروع مواصفة أولي
Draft Standard DS

إعداد اللجنة الفنية الخليجية رقم TC05

Prepared by GSO Technical Committee No. TC05

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الأعلاف والإضافات العلفية الداخلة في صناعة الأعلاف الحيوانية وفقاً لأمان
استخدامها

**Feed and feed additives used in in animal feed
Industry according to their safety of use**

ICS: 65.120

This document is a draft Gulf Technical Regulation circulated for comments. It is, therefore, subject to alteration and modification and may not be referred to as a Gulf Technical Regulation until approved by GSO.

هذه الوثيقة مشروع لائحة فنية خليجية تم توزيعها لإبداء الرأي والملاحظات بشأنها، لذلك فإنها عرضة للتغيير والتبديل، ولا يجوز الرجوع إليها كلائحة فنية خليجية إلا بعد اعتمادها من الهيئة.

قائمة الإضافات العلفية المسموح باستخدامها.
تصنيف الإضافات العلفية طبقاً للغرض من استخدامها جدول رقم (7)

ZOOTECHNICAL ADDITIVES	NUTRITIONAL ADDITIVES	SENSORY ADDITIVES	TECHNICAL ADDITIVES	
الإضافات الحيوية	الإضافات الغذائية	الإضافات الحسية	الإضافات التقنية (تضاف بغرض فني في التصنيع)	
أ- محسنات الهضم DIGESTIBILITY ENHACER ب- ميكروبات استقرار الأمعاء GTU FLORA STABILISER ج- مواد لها تأثير إيجابي على البيئة SUBSTANCES FAVOURABLY AFFECT ENVIRONMENT د- أخرى OTHERS	أ- فيتامينات VITAMINS ب- أملاح معدنية MINERALS ج- المعادن الصغرى TRACE ELEMENT د- الأحماض الأمينية AMINO ACID, SALTS هـ- اليوريا ومشتقاتها UREA AND ITS DERIVATIVES	أ- مكسبات اللون COLOURANT ب- مكسبات الطعم FLAVOURING AGENT	a)- PRESERVATIVES	أ. مواد حافظة
			b)- ANTIOXIDANT	ب. مضادات أكسدة
			c)- EMULSIFIER	ت. مستحلب
			d)- STABILISERS	ث. مثبتات
			e)- THICKENERS	ج. مواد تساعد على اللزوجة
			f)- GELLING AGENTS	ح. عوامل تزيد الهلامية
			g)- BINDING AGENTS	خ. عوامل تساعد على التلاصق
			i)- ANTICAKING	د. عوامل تمنع من التكتل
			j)- ACIDITY REGULATORS	ذ. منظمات الحمضية
			k)- SILAGE ADDITIVES; enzymes, microorganisms.	ر. مضاف سيلاج، انزيم، ميكروب، جرثومي.
			m)- Mycotoxin binders	ز. محيدات السموم الفطرية

قائمة بالإضافات العلفية التقنية جدول رقم (8)

1.6

TECHNICAL ADDITIVES			
No.	Additive	Species or category of anima	Maximum content mg/kg of complete feedingstuff with a moisture content of 12 %
1	Acacia (Gum arabic)	All animal species	No limit
2	Agar	All animal species	No limit
3	Calcium silicate, synthetic	All animal species	No limit
4	Carboxymethylcellulose (Sodium salt of carboxymethyl ether of cellulose)	All animal species	No limit
5	Carrageenan	All animal species	No limit
6	Clinoptilolite of volcanic origin	poultry	20 000
		Rabbits	
7	Colloidal silica	All animal species	No limit

8	Ethylcellulose	All animal species	No limit
9	Glyceryl polyethyleneglycol ricinoleate	All animal species	No limit
10	Guar gum	All animal species	No limit
11	Hydroxypropylcellulose	All animal species	No limit
12	Hydroxypropylmethylcellulose	All animal species	No limit
13	Kaolinitic clays, free of asbestos	All animal species	No limit
14	Kieselgur (diatomaceous earth, purified)	All animal species	No limit
15	Lignosulphonates	All animal species	No limit
16	Locust bean gum (Carob gum)	All animal species	No limit
17	Methylcellulose	All animal species	No limit
18	Microcrystalline cellulose	All animal species	No limit
19	Natrolite-phonolite	All animal species	25 000
20	Natural mixtures of steatites and chlorite	All animal species	No limit
21	Perlite	All animal species	No limit
22	Polyethyleneglycol ester of fatty acids from soya oil	Cow	6000
23	Polyoxyethylene (20)-sorbitan monooleate	All animal species	5000
24	Potassium Ferrocyanide	All animal species	80 mg/kg
25	Sepiolite	All animal species	20 000
26	Sepiolitic clay	All animal species	20 000
27	Silicic acid, precipitated and dried	All animal species	No limit
28	Sodium Ferrocyanide	All animal species	80 mg/kg
29	Sodium aluminosilicate, synthetic	All animal species	No limit
30	Sorbitan monolaurate	All animal species	No limit
31	Tragacanth	All animal species	No limit
32	Vermiculite	All animal species	No limit
33	Xanthan gum	All animal species	No limit
34	Acetic acid	Poultry	2500
		Pets	
		All animal species except: fish	No limit
35	Ammonium formate	All animal species except: laying hens, sows, dairy ruminants, pet and non-food producing animal	2000
36	Ammonium propionate	Poultry	10 000
		All animal species	No limit

37	Calcium acetate	Poultry	2500
		Pets	
		All animal species	No limit
38	Calcium formate	All animal species	10 000
39	Calcium lactate	Ruminants	30 000
		All animal species	20 000
40	Calcium propionate	Poultry	10 000
		All animal species	No limit
41	Citric acid	All animal species	No limit
42	Citric acid Produced by: - Aspergillus niger	All animal species	15 000
43	DL-Malic acid	All animal species	No limit
44	Formic acid	All animal species	10 000
45	Fumaric acid	Poultry	20 000
		Young animals	10 000
		All animal species	No limit
46	Lactic acid	All animal species	No limit
47	Lactic acid Produced by fermentation of: - Bacillus coagulans , or - Bacillus smithii or - Bacillus subtilis	Ruminants	50 000
		All animal species	20 000
48	Lactobacillus fermentum, Lactobacillus plantarum (and Lactobacillus rhamnosus	Dogs	No limit
49	Orthophosphoric acid	All animal species	No limit
50	Phosphoric acid 60 % on silica carrier	All animal species	No limit
51	Potassium sorbate	Ruminants	6700
		All animal species	2500
52	Propionic acid	Poultry	10 000
		All animal species	No limit
53	Sodium bisulphate	All animal species	4000
		Cat	20 000
		Mink	10 000
54	Sodium diacetate	Poultry	2500
		Pets	
		All animal species	No limit
55	Sodium formate	All animal species	10 000
56	Sodium nitrite	All animal species	No limit
57	Sodium propionate	Poultry	10 000
		All animal species	No limit
58	Sorbic acid	Ruminants	6700
		All animal species	2500
59	Alpha-tocopherol	All animal species	No limit
60	Ascorbic acid	All animal species	No limit
61	Ascorbyl palmitate	All animal species	No limit
62	Butylated hydroxytoluene (BHT)	All animal species	150

63	Butylated hydroxyanisole (BHA) CAS No: 25013-16-5	All animal species	150
64	Calcium ascorbate	All animal species	No limit
65	Propyl gallate	All animal species	100
66	Sodium ascorbate	All animal species	No limit
67	Tocopherol extracts from vegetable oils	All animal species	No limit
68	Tocopherol- rich extracts from vegetable oils	All animal species	No limit
69	Lecithins. Preparation of lecithins from soybeans	All animal species	No limit
70	Lecithins. Preparations of: - lecithins and hydrolysed lecithins in liquid (plastic to fluid) form; - de-oiled lecithins and de-oiled hydrolysed lecithins in solid form (fluid)	All animal species	No limit
71	Sorbitan monolaurate	All animal species	85
72	Potassium alginate	Cat	35 200
		Dogs	
73	Sodium alginate	Cat	35 200
		Dogs	
		Other non-food producing animals fish	No limit
74	Cassia gum	Cat	13 200
		Dogs	
75	Bentonite	All animal species	20 000
76	Clinoptilolite of sedimentary origin	All animal species	10 000
77	Dolomite-Magnesite	All animal species	20 000
78	Illite-montmorillonite-kaolinite	Poultry	50 000
		Chickens	
		Cow	
		All animal species	20 000
79	Montmorillonite-Illite	All animal species	20 000
80	Sepiolitic clay	Chickens	10 000
		Ruminants	20 000
		Salmonidae	17 600
81	Ferric (III) ammonium hexacyanoferrate (II)	Ruminants	500
		Cow	
		Sheep	
82	Clinoptilolite of sedimentary origin	All animal species	10 000
83	Iron sodium tartrates	All animal species	No limit
84	Citric acid Produced by: - Aspergillus niger	All animal species	15 000
85	DL- and L-Malic acid	All animal species	No limit
86	Pediococcus acidilactici	All animal species	No limit
87	Sodium bisulphate	All animal species	4000
		Cat	20 000

		Mink	10 000
88	Sodium hydroxide	Fish	No limit
		Dogs	
		Cat	
89	Alpha-amylase from <i>Aspergillus oryzae</i>	All animal species	No limit
90	Alpha-amylase from <i>Bacillus amyloliquefaciens</i>	All animal species	No limit
91	Alpha-amylase from <i>Bacillus subtilis</i>	All animal species	No limit
92	Ammonium propionate	Poultry	10 000
93	Beta-glucanase from <i>Aspergillus niger</i>	All animal species	No limit
94	Cellulase from <i>Aspergillus niger</i>	All animal species	No limit
95	Cellulase from <i>Trichoderma longibrachiatum</i>	All animal species	No limit
96	Endo-1,3(4)-beta-glucanase (EC 3.2.1.6) produced by <i>Aspergillus neoniger</i>	All animal species	No limit
97	Endo-1,4-beta-glucanase produced by <i>Aspergillus niger</i>	All animal species	No limit
98	Endo-1,4-beta-glucanase from <i>Trichoderma reesei</i>	All animal species	No limit
99	Endo-1,4-beta-xylanase produced by <i>Trichoderma citrinoviride</i>	All animal species	No limit
100	<i>Enterococcus faecium</i>	All animal species	No limit
101	Formic acid	All animal species	10 000
102	<i>Lactobacillus rhamnosus</i>	All animal species	No limit
103	<i>Lactiplantibacillus plantarum</i>	All animal species	No limit
104	<i>Lactobacillus brevis</i>	All animal species	No limit
105	<i>Lactobacillus buchneri</i>	All animal species	No limit
106	<i>Lactobacillus casei</i>	All animal species	No limit
107	<i>Lactobacillus diolivorans</i>	All animal species	No limit
108	<i>Lactobacillus fermentum</i>	All animal species	No limit
109	<i>Lactobacillus hilgardii</i> and <i>Lactobacillus buchneri</i>	All animal species	No limit
110	<i>Lactobacillus kefir</i>	All animal species	No limit
111	<i>Lactobacillus paracasei</i>	All animal species	No limit
112	<i>Lactobacillus parafarraginis</i>	All animal species	No limit
113	<i>Lactobacillus plantarum</i>	All animal species	No limit
114	<i>Lactobacillus rhamnosus</i>	All animal species	No limit
115	<i>Lactococcus lactis</i>	All animal species	No limit
116	<i>Pediococcus acidilactici</i>	All animal species	No limit
117	Preparation of <i>Propionibacterium</i>	All animal species	No limit

	freudenreichii and Lentilactobacillus buchneri		
118	Propionibacterium acidipropionici	All animal species	No limit
119	Propionic acid	Poultry	10 000
		All animal species	No limit
120	Saccharomyces cerevisiae	All animal species	No limit
121	Sodium benzoate	All animal species	2400
122	Sodium propionate	Poultry	10 000
		All animal species	No limit
123	Bentonite	All animal species	20 000
124	Fumonisin esterase produced by Komagataella pastoris	All animal species	No limit
125	Fumonisin esterase produced by Komagataella phaffii	Poultry	No limit
		All animal species	No limit
126	Micro-organism strain of the Coriobacteriaceae family	All avian species	No limit
127	Formic acid	All animal species	10 000
128	Pediococcus acidilactici	All animal species	No limit
129	Sodium formate	All animal species	10 000

قائمة بالإضافات العلفية الحسية جدول رقم (9)

2.6

SENSORY ADDITIVES

No.	Additive	Species or category of anima	Maximum content mg/kg of comp
1	Allura Red AC	Doge	370
		Cat	308
		Chinchilla	500
		Degu	
		Hamster	
		Gerbil	
		Chipmunk	
		Ferrets	99
		Other small nonfood producing mammals	
		Canaries	45
		Budgerigars	
		Mynahs	
		Toucans	
		Lovebirds	51
		Cockatiels	79
		Cockatoos	115
		Amazons	145
		Parrots	147
		Yellow breast macaws	150

		Blue throated macaws	173
		hyacinth macaws	214
		Other ornamental birds	45
2	Brilliant Blue FCF	Doge	334
		Cat	278
3	Erythrosine	Doge	16
		Cat	13
4	Ponceau 4R	Ornamental fish	137
		Doge	37
		Cat	31
5	Tartrazine	Doge	520
		Cat	433
		Small rodents	2000
		Grain-eating or namental birds	63
6	Astaxanthin	Crustaceans	200
		Fish	
7	Astaxanthin dimethyldisuccinate	Crustaceans	138
		Fish	
8	Canthaxanthin	minor poultry for fattening	25
		Minor poultry for laying	8
		Fish	100
		birds	100
		Ornamental breeder hens	8
9	Lutein-rich extract of Tagetes erecta	minor poultry for fattening	80
		Minor poultry for laying	80
		Poultry	80
10	Lutein/zeaxanthin extract of Tagetes erecta	minor poultry for fattening	80
		Minor poultry for laying	50
		Laying hens	80
11	Red carotenoid rich Paracoccus carotinifaciens	Sallmon	100
12	Astaxanthin	Crustaceans	100
		Fish	100
		birds	100
13	Canthaxanthin	minor poultry for fattening	25
		Minor poultry for laying	8
		Fish	100
		birds	100
		Ornamental breeder hens	8
14	Erythrosine	Ornamental fish	No limit
15	Indigotine	Ornamental fish	No limit
16	Iron oxide, red	Ornamental fish	No limit
17	Ponceau 4R	Ornamental fish	137
18	Sunset yellow FCF	Grain-eating ornamental birds	150
		Small rodents	150

19	Tartrazine	Doge	520
		Cat	433
		Grain-eating ornamental birds	63
		Small rodents	2000
20	3,7-Dimethyl-6-octen-1-ol / CAS No. 7540-51-4	All animal species	No limit
21	Methylcrotonic acid / CAS No. 80-59-1	All animal species	No limit
22	Nerol / CAS No. 106-25-2	All animal species except marine animals	No limit
23	1,1-Diethoxyethane	All animal species	No limit
24	1,1-Dimethoxy-2-phenylethane	All animal species	No limit
25	1,3-Dimethoxybenzene / CAS No. 151-10-0	All animal species	No limit
26	1,4-Dimethoxybenzene / CAS No. 150-78-7	All animal species	No limit
27	1,8-Cineole	All animal species	No limit
28	1-Ethoxy-1-(3-hexenyloxy) ethane / CAS No. 28069-74-1	All animal species	No limit
29	1-Isopropenyl-4-methylbenzene	All animal species	No limit
30	1-Isopropyl- 4-methylbenzene	All animal species	No limit
31	1-Isopropyl-2-methoxy-4-methylbenzene / CAS No. 1076-56-8	All animal species	No limit
32	1-Methoxy-4-(prop-1(trans)-enyl)benzene CAS No. 4180-23-8	All animal species except poultry and fish	No limit
33	1-Methoxy-4-methylbenzene / CAS No. 104-93-8	All animal species	No limit
34	1-Propane-1-thiol	All animal species	No limit
35	12-Methyltridecanal / CAS No. 75853-49-5	Doge	No limit
		Cat	No limit
36	2,3-Diethyl-5-methylpyrazine / CAS No. 18138-04-0	All animal species	No limit
37	2,3-Diethylpyrazine / CAS No. 15707-24-1	All animal species	No limit
38	2,4,5-Trimethylthiazole / CAS No. 13623-11-5	All animal species	No limit
39	2,4-Dithiapentane	All animal species	No limit
40	2,5 or 6-methoxy-3-methylpyrazine / CAS No. 63450-30-6	All animal species	No limit
41	2,5-Dimethylphenol / CAS No. 95-87-4	Doge	No limit
		Cat	No limit

42	2,6,6-Trimethylcyclohex-2-en-1,4-dione / CAS No. 1125-21-9	All animal species	No limit
43	2,6-Dimethylhept-5-enal / CAS No. 106-72-9	All animal species	No limit
44	2-(2-Methylprop-1-enyl)-4-methyltetrahydropyran	All animal species	No limit
45	2-(4-Methylphenyl)propan-2-ol	All animal species	No limit
46	2-(sec-Butyl)-3-methoxypyrazine / CAS No. 24168-70-5	All animal species	No limit
47	2-Acetyl-3-ethylpyrazine / CAS No. 32974-92-8	All animal species	No limit
48	2-Acetylpyridine CAS No. 1122-62-9	All animal species	No limit
49	2-Acetylpyrrole / CAS No. 1072-83-9	All animal species	No limit
50	2-Acetylthiazole / CAS No. 24295-03-2	All animal species	No limit
51	2-Ethyl 4-methylthiazole / CAS No. 15679-12-6	All animal species	No limit
52	2-Ethyl-3-methoxypyrazine / CAS No. 25680-58-4	All animal species	No limit
53	2-Ethyl-4-hydroxy-5-methyl-3(2H)-furanone / CAS No. 27538-09-6	Doge	No limit
		Cat	No limit
54	2-Ethylbutyric acid	All animal species	No limit
55	2-Ethylhexan-1-ol	All animal species	No limit
56	2-Ethylpyrazine / CAS No. 13925-00-3	All animal species	No limit
57	2-Furanmethanethiol / CAS No. 98-02-2	All animal species	No limit
58	2-Isobutylthiazole / CAS No. 18640-74-9	All animal species	No limit
59	2-Methoxybenzaldehyde	All animal species	No limit
60	2-Methoxyethyl benzene / CAS No. 3558-60-9	All animal species	No limit
61	2-Methyl-2-(methylthio) propanal	All animal species	No limit
62	2-Methyl-4-propyl-1,3-oxathiane	All animal species	No limit
63	2-Methylbenzene-1-thiol	All animal species	No limit
64	2-Methylbutyl butyrate	All animal species	No limit
65	2-Methylbutyl isovalerate	All animal species	No limit
66	2-Methylbutyraldehyde	All animal species	No limit
67	2-Methylbutyric acid	All animal species	No limit
68	2-Methylfuran-3-thiol / CAS No. 28588-74-1	All animal species	No limit

69	2-Methylheptanoic acid	All animal species	No limit
70	2-Methylpropan-1-ol	All animal species	No limit
71	2-Methylpropanal	All animal species	No limit
72	2-Methylpropane-1-thiol	All animal species	No limit
73	2-Methylundecanal / CAS No. 110-41-8	All animal species	No limit
74	2-Methylvaleric acid	All animal species	No limit
75	2-Phenylpropanal / CAS No. 93-53-8	All animal species except marine animals	No limit
76	3,4-Dihydrocoumarin	All animal species	No limit
77	3,4-Dimethylcyclopentan-1,2-dione / CAS No. 13494-06-9	All animal species	No limit
78	3,4-Dimethylphenol / CAS No. 95-65-8	All animal species	No limit
79	3,5-Dimethyl-1,2,4-trithiolane	All animal species	No limit
80	3,5-Dimethylcyclopentan-1,2-dione / CAS No. 13494-07-0	All animal species	No limit
81	3,7,11-Trimethyldodeca-2,6,10-trien-1-ol / CAS No. 4602-84-0	all animal species except poultry and fish	No limit
82	3,7-Dimethyloctan-1-ol	All animal species	No limit
83	3-(Methylthio)hexan-1-ol	All animal species	No limit
84	3-(Methylthio)propan-1-ol	All animal species	No limit
85	3-(Methylthio)propionaldehyde	All animal species	No limit
86	3-(p-Cumenyl)-2-methylpropionaldehyde / CAS No. 103-95-7	All animal species except marine animals	No limit
87	3-Ethylcyclopentan-1,2-dione CAS No. 21835-01-8	All animal species	No limit
88	3-Hydroxybutan-2-one CAS No. 513-86-0	All animal species	No limit
89	3-Methyl-2(pent-2(cis)-enyl)cyclopent-2-en-1-one / CAS No. 488-10-8	All animal species	No limit
90	3-Methylbutanal	All animal species	No limit
91	3-Methylbutyl dodecanoate	All animal species	No limit
92	3-Methylbutyl formate	All animal species	No limit
93	3-Methylbutyl hexanoate	All animal species	No limit
94	3-Methylbutyl octanoate	All animal species	No limit
95	3-Methylbutyl propionate	All animal species	No limit
96	3-Methylbutylamine / CAS No. 107-85-7	All animal species except laying hens	No limit
97	3-Methylbutyric acid	All animal species	No limit
98	3-Methylindole / CAS No. 83-34-1	All animal species	No limit
99	3-Methylnona-2,4-dione / CAS No. 113486-29-6	All animal species	No limit

100	3-Methylphenol / CAS No. 108-39-4	All animal species	No limit
101	3-Phenylpropan-1-ol / CAS No. 122-97-4	All animal species except marine animals	No limit
102	3-Phenylpropanal / CAS No. 104-53-0	All animal species except marine animals	No limit
103	3-Phenylpropyl isobutyrate / CAS No. 103-58-2	All animal species except marine animals	No limit
104	4,5-Dihydro-2-methylfuran-3(2H)-one CAS No. 3188-00-9	Doge	No limit
		Cat	
105	4,5-Dihydrothiophen-3(2H)-one / CAS No. 1003-04-9	All animal species	No limit
106	4-(4-Methoxyphenyl)butan-2-one / CAS No. 104-20-1	All animal species	No limit
107	4-Allyl-2,6-dimethoxyphenol	All animal species except fish and poultry	No limit
108	4-Hydroxy-2,5-dimethylfuran-3(2H)-one CAS No. 3658-77-3	Doge	No limit
		Cat	
109	4-Isopropylbenzaldehyde	All animal species	No limit
110	4-Isopropylbenzyl alcohol	All animal species	No limit
111	4-Methoxyacetophenone / CAS No. 100-06-1	All animal species	No limit
112	4-Methylacetophenone / CAS No. 122-00-9	All animal species	No limit
113	4-Methylnonanoic acid	All animal species	No limit
114	4-Methyloctanoic acid	All animal species	No limit
115	4-Oxovaleric acid	All animal species	No limit
116	5,6,7,8-Tetrahydroquinoxaline / CAS No. 34413-35-9	All animal species	No limit
117	5,6-Dihydro-2,4,6, tris(2-methylpropyl)4H-1,3,5-dithiazine / CAS No. 74595-94-1	All animal species	No limit
118	5-(2-Hydroxyethyl)-4-methylthiazole / CAS No. 137-00-8	All animal species	No limit
119	5-Ethyl-3-hydroxy-4-methylfuran-2(5H)-one / CAS No. 698-10-2	All animal species	No limit
120	5-Methylquinoxaline / CAS No. 13708-12-8	All animal species	No limit
121	6-Methyl- hepta- 3,5-dien- 2-one	All animal species	No limit
122	8-Mercapto-p-menthan-3-one /	All animal species	No limit

	CAS No. 38462-22-5		
123	Acetaldehyde	All animal species	No limit
124	Acetic acid	All animal species	No limit
125	Allyl isothiocyanate	All animal species	0.05
126	Allyl methyl disulfide	All animal species	No limit
127	Allylthiol	All animal species	No limit
128	Benzaldehyde	All animal species	No limit
129	Benzoic acid	All animal species	125
130	Benzyl acetate	All animal species	No limit
131	Benzyl alcohol	All animal species	No limit
132	Benzyl butyrate	All animal species	No limit
133	Benzyl formate	All animal species	No limit
134	Benzyl hexanoate	All animal species	No limit
135	Benzyl isobutyrate	All animal species	No limit
136	Benzyl isovalerate	All animal species	No limit
137	Benzyl methyl sulfide / CAS No. 766-92-7	Doge	No limit
		Cat	
138	Benzyl phenylacetate	No limit	No limit
139	Benzyl propionate	No limit	No limit
140	Bis-(2-Methyl-3-furyl) disulfide / CAS No. 28588-75-2	No limit	No limit
141	Bitter orange extract from the fruit of Citrus x aurantium L.	All animal species	No limit
142	Buchu leaf essential oil obtained from the leaves of Agathosma betulina (P.J. Bergius) Pillans CAS No: 68650-46-4	All animal species except cats	No limit
		Cat	0.2
143	Butan-1-ol	All animal species	No limit
144	Butan-2-one / CAS No. 78-93-3	All animal species	No limit
145	Butanal	All animal species	No limit
146	Butyl 2-methylbutyrate / CAS No. 15706-73-7	All animal species	No limit
147	Butyl acetate	All animal species	No limit
148	Butyl butyrate	All animal species	No limit
149	Butyl isovalerate	All animal species	No limit
150	Butyl lactate	All animal species	No limit
151	Butyl valerate	All animal species	No limit
152	Butyl-O-butyryllactate	All animal species	No limit
153	Butyro-1,4-lactone	All animal species	No limit
154	Phenylmethanethiol CAS No.	Doge	No limit

	100-53-8	Cat	
155	2-Methyl-1-phenylpropan-2-ol CAS No. 100-86-7	All animal species	No limit
156	Benzyl cinnamate CAS No. 103-41-3	All animal species	No limit
157	Pentadecano-1,15-lactone CAS No. 106-02-5	All animal species	No limit
158	3-Methylbutyl butyrate CAS No. 106-27-4	All animal species	No limit
159	Ethyl heptanoate CAS No. 106-30-9	All animal species	No limit
160	Ethyl oleate CAS No. 111-62-6	All animal species	No limit
161	Linalyl formate CAS No. 115- 99-1	All animal species	No limit
162	Ethyl salicylate CAS No. 118- 61-6	All animal species	No limit
163	Benzophenone CAS No. 119- 61-9	All animal species	No limit
164	Myrcene CAS No. 123-35-3	All animal species	No limit
165	Allyl hexanoate CAS No. 123- 68-2	All animal species	No limit
166	Isopentyl acetate CAS No. 123-92-2	All animal species	No limit
167	alpha-Ionone CAS No. 127-41-3	All animal species	No limit
168	beta-Ocimene CAS No. 13877- 91-3	All animal species	No limit
169	Phenethyl isovalerate CAS No. 140-26-1	All animal species	No limit
170	Allyl heptanoate CAS No. 142- 19-8	All animal species	No limit
171	Hexa-2(trans),4(trans)-dienal CAS No. 142-83-6	Dogs	No limit
		Cats	
172	Linalyl propionate CAS No. 144-39-8	All animal species	No limit
173	beta-Ionone CAS No. 14901- 07-6	All animal species	No limit
174	Isopropyl-4-methylthiazole CAS No. 15679-13-7 2-	All animal species	No limit
175	Pent-2-en-1-ol CAS No. 1576- 95-0	All animal species	No limit
176	Nona-2(trans),6(trans)-dienal CAS No. 17587-33-6	All animal species	No limit
177	Hept-2(trans)-enal CAS No.	All animal species	No limit

	18829-55-5		
178	trans-2-Nonenal CAS No. 18829-56-6	All animal species	No limit
179	Dodec-2(trans)-enal CAS No. 20407-84-5	All animal species	No limit
180	Hex-2-en-1-ol CAS No. 2305-21-7	All animal species	No limit
181	Decadienal CAS No. 2363-88-4 2,4-	All animal species	No limit
182	beta-Damascenone CAS No. 23696-85-7	All animal species	No limit
183	tr-1-(2,6,6-Trimethyl-1-cyclohexen-1-yl)but-2-en-1-one CAS No. 23726-91-2	All animal species	No limit
184	beta-Damascone CAS No. 23726-92-3	All animal species	No limit
185	Non-2-enal CAS No. 2463-53-8	All animal species	No limit
186	Undec-2(trans)-enal CAS No. 2463-77-6	All animal species	No limit
187	Hex-2(trans)-enyl acetate CAS No. 2497-18-9	All animal species	No limit
188	Deca-2(trans),4(trans)-dienal CAS No. 25152-84-5	All animal species	No limit
189	trans-2-Octenal CAS No. 2548-87-0	All animal species	No limit
190	3-Methyl-2-cyclopenten-1-one CAS No. 2758-18-1	All animal species	No limit
191	tr-2, tr-4-Undecadienal CAS No. 30361-29-6	All animal species	No limit
192	trans-2-Decenal CAS No. 3913-81-3	All animal species	No limit
193	Oct-1-en-3-one CAS No. 4312-99-6	All animal species	No limit
194	2,4-heptadienal, Hepta-2,4-dienal CAS No. 4313-03-5	All animal species	No limit
195	Valencene CAS No. 4630-07-3	All animal species	No limit
196	Nootkatone CAS No. 4674-50-4	All animal species	No limit
197	Fenchone CAS No. 4695-62-9 d-	All animal species	No limit
198	Dodecenal CAS No. 4826-62-4 2-	All animal species	No limit
199	sec-Butan-3-onyl acetate CAS No. 4906-24-5	All animal species	No limit
200	Hex-2-enyl butyrate CAS No. 53398-83-7	All animal species	No limit
201	4-(p-Hydroxyphenyl)butan-2-	All animal species	No limit

	one CAS No. 5471-51-2		
202	Nona-2(trans),6(cis)-dienal CAS No. 557-48-2	All animal species	No limit
203	L-glutamic acid CAS No. 56-86-0	All animal species	No limit
204	Terpinenol CAS No. 562-74-3 4-	All animal species	No limit
205	tr-2, tr-4-Nonadienal CAS No. 5910-87-2	All animal species	No limit
206	2-Phenylethan-1-ol CAS No. 60-12-8	All animal species	No limit
207	Methyl 2-furoate CAS No. 611-13-2	All animal species	No limit
208	2-Methylbutyl acetate CAS No. 624-41-9	All animal species	No limit
209	3-Methylbutyl 3-methylbutyrate CAS No. 659-70-1	All animal species	No limit
210	Hex-2(trans)-enal CAS No. 6728-26-3	All animal species	No limit
211	Nona-2,4-dienal CAS No. 6750-03-4	All animal species	No limit
212	Ethyl 2-methylbutyrate CAS No. 7452-79-1	All animal species	No limit
213	Nona-2,6-dien-1-olCAS No. 7786-44-9	All animal species	No limit
214	Linalyl isobutyrate CAS No. 78-35-3	All animal species	No limit
215	Linalyl butyrate CAS No. 78-36-4	All animal species	No limit
216	3,5,5-Trimethylcyclohex-2-en-1-one CAS No. 78-59-1	All animal species	No limit
217	Linalool CAS No. 78-70-6	All animal species	No limit
218	2-Methylpropionic acid CAS No. 79-31-2	All animal species	No limit
219	4-(2,5,6,6-Tetramethyl-2-cyclohexenyl)-3-buten-2-one CAS No. 79-69-6	All animal species	No limit
220	Isopulegol CAS No. 89-79-2	All animal species	No limit
221	2-Methoxynaphthalene CAS No. 93-04-9	All animal species	No limit
222	1,2-Dimethoxy-4-(prop-1-enyl)benzene CAS No. 93-16-3	All animal species	No limit
223	tr-2, cis-6-Nonadien-1-ol CAS No.28069-72-9	All animal species	No limit
224	Camphene	All animal species	No limit
225	Camphor white essential oil obtained from the whole plant	All animal species except cats	No limit

	Cinnamomum camphora	Cats	22
226	Carvyl acetate / CAS No. 97-42-7	All animal species	No limit
227	Cinnamic acid / CAS No. 621-82-9	All animal species except marine animals	No limit
228	Cinnamon tincture obtained from the bark of Cinnamomum verum	All animal species	No limit
229	Cinnamyl acetate / CAS No. 103-54-8	All animal species except marine animals	No limit
230	Cinnamyl alcohol / CAS No. 104-54-1	All animal species except marine animals	No limit
231	Cinnamyl butyrate / CAS No. 103-61-7	All animal species except marine animals	No limit
232	Cinnamyl isobutyrate / CAS No. 103-59-3	All animal species except marine animals	No limit
233	Cinnamyl isovalerate / CAS No. 140-27-2	All animal species except marine animals	No limit
234	Citral / CAS No. 5392-40-5	All animal species except marine animals	No limit
235	Citronellal / CAS No. 106-23-0	All animal species	No limit
236	Citronellic acid / CAS No. 502-47-6	All animal species	No limit
237	Citronellol / CAS No. 106-22-9	All animal species	No limit
238	Citronellyl acetate / CAS No. 150-84-5	All animal species	No limit
239	Citronellyl butyrate / CAS No. 141-16-2	All animal species	No limit
240	Citronellyl formate / CAS No. 105-85-1	All animal species	No limit
241	Citronellyl propionate / CAS No. 141-14-0	All animal species	No limit
242	Cuminum cyminum L.: Cumin tincture	All animal species	No limit
243	Cyclohexyl acetate / CAS No. 622-45-7	All animal species	No limit
244	D,L-Isoleucine / CAS No. 443-79-8	All animal species	No limit
245	D,L-Serine / CAS No. 302-84-1	All animal species	No limit
246	Decan- 2 -one	All animal species	No limit
247	Decan-1-ol	All animal species	No limit
248	Decanal	All animal species	No limit
249	Decano-1,5-lactone	All animal species	No limit
250	Decanoic acid	All animal species	No limit
251	Decyl acetate	All animal species	No limit
252	Diallyl disulfide	All animal species	No limit
253	Diallyl sulfide	All animal species	No limit
254	Diallyl trisulfide	All animal species	No limit

255	Diethyl malonate	All animal species	No limit
256	Diethyl succinate	All animal species	No limit
257	Difurfuryl sulfide / CAS No. 4437-20-1	All animal species	No limit
258	Dihydrocarvyl acetate / CAS No. 20777-49-5	All animal species	No limit
259	Dimethyl disulfide	All animal species	No limit
260	Dimethyl sulfide	All animal species	No limit
261	Dimethyl trisulfide	All animal species	No limit
262	Dipropyl disulfide	All animal species	No limit
263	Disodium 5'-guanylate	All animal species	No limit
264	Disodium 5'-inosinate	All animal species	No limit
265	Disodium 5'-inosinate produced by fermentation with <i>Corynebacterium stationis</i>	All animal species	No limit
266	Disodium 5'-ribonucleotide	All animal species	No limit
267	Distillate (volatile fraction) of orange essential oil, which is obtained from fruit peel CAS number: 8028-48-6	Poultry	80
		Fish (except ornamental fish)	
		Rabbits	
		Other species	
		Ruminants	130
268	Distilled lemon essential oil (volatile fraction) obtained by lemon essential oil expressed, from fruit peel of <i>Citrus limon</i>	Horses	225
		Minor poultry for fattening	36
		Laying hens	53
		Turkeys for fattening	48
		Calves milk replacers	95
		Dairy cows	91
		Goats	95
		Sheep	
		Ornamental fish	60
		Sallmon	
		Dogs	
		Cats	30
		Rabbits	56
269	Distilled lime essential oil obtained by steam distillation from unpeeled fruits of the plant species <i>Citrus aurantiifolia</i> (Christm.) Swingle	Horses	141
		Cattle	95
		Minor poultry for fattening	8.5
		Laying hens	12.5
		Turkeys for fattening	11
		Calves milk replacers	35,5
		Dairy cows	21.5
		Goats	33,5
		Sheep	
		Horses	
		Cattle	
		Rabbits	13.5

		Ornamental fish	30
		Sallmon	
270	Dodecan-1-ol	All animal species	No limit
271	Dodecanal	All animal species	No limit
272	Dodecanoic acid	All animal species	No limit
273	Dodecyl acetate	All animal species	No limit
274	Dry extract of olibanum from Boswellia serrata Roxb. ex Colebr.	Horses	No limit
		Dogs	
275	Essential oil from Origanum vulgare L., subsp. hirtum, (Link) letsw	Laying hens	33
		Chickens for fattening	22
		Turkeys for fattening	30
		Dairy cows Calve	57
		Calve	100
		Cattle for fattening	88
		Goats	
		Sheep	
		Horses	
		Ornamental fish	150
		Sallmon	101
		Dogs	106
		Cats	18
		Rabbits	35
276	Essential oil from Origanum vulgare L., subsp. hirtum, (Link) letsw. Var. Vulkan	All animal species	150
277	Essential oil from the seeds of Elettaria car-damomum (L.) Maton CAS 8000-66-6	All animal species	No limit
278	Ethanol	All animal species	No limit
279	Ethyl (E,Z)-deca-2,4-dienoate / CAS No. 3025-30-7	All animal species	No limit
280	Ethyl 4-oxovalerate	All animal species	No limit
281	Ethyl acetate	All animal species	No limit
282	Ethyl acetoacetate	All animal species	No limit
283	Ethyl acrylate / CAS No. 140-88-5	All animal species	No limit
284	Ethyl benzoate	All animal species	No limit
285	Ethyl cinnamate / CAS No. 103-36-6	All animal species	No limit
286	Ethyl decanoate	All animal species	No limit
287	Ethyl dodecanoate	All animal species	No limit
288	Ethyl formate	All animal species	No limit
289	Ethyl hex-3-enoate	All animal species	No limit
290	Ethyl hexadecanoate	All animal species	No limit
291	Ethyl hexanoate	All animal species	No limit
292	Ethyl lactate	All animal species	No limit
293	Ethyl nonanoate	All animal species	No limit

294	Ethyl octanoate	All animal species	No limit
295	Ethyl propionate	All animal species	No limit
296	Ethyl tetradecanoate	All animal species	No limit
297	Ethyl trans-2-butenate	All animal species	No limit
298	Ethyl undecanoate	All animal species	No limit
299	Ethyl valerate	All animal species	No limit
300	Eugenol	All animal species (except poultry and fish)	No limit
301	Eugenyl acetate	All animal species (except poultry and fish)	No limit
302	Expressed lemon essential oil obtained by cold expression from fruit peel of Citrus limon (L.) Osbeck	Laying hens	52
		Chickens for fattening	35
		Turkeys for fattening	40
		Sallmon	
		Cattle for fattening	90
303	Expressed mandarin essential oil. Citrus reticulata Blanco	Cows	
		Poultry	
		Sallmon	15
		Rabbits	
		Ruminants	30
		Horses	40
304	Expressed orange essential oil from fruit peels of Citrus sinensis (L.) Osbeck	Poultry	80
305	Fenchyl acetate	All animal species	No limit
306	Fenchyl alcohol	All animal species	No limit
307	Folded oil produced by the fractional distillation of an expressed orange essential oil obtained from the fruit peel of Citrus sinensis (L.) Osbeck CAS no: 8028-48-6	Laying hens and other minor poultry species for laying	8
		Chickens for fattening and other minor poultry species for fattening	5.5
		Turkeys for fattening	7
308	Formic acid	All animal species	No limit
309	Furfural / CAS No. 98-01-1	All animal species	No limit
310	Furfuryl acetate / CAS No. 623-17-6	All animal species	No limit
311	Furfuryl alcohol / CAS No. 98-00-0	All animal species	No limit
312	Gallic acid	All animal species except	No limit

		fish	
313	Geraniol	All animal species except marine animals	No limit
314	Geranyl acetate	All animal species except marine animals	No limit
315	Geranyl butyrate	All animal species except marine animals	No limit
316	Geranyl formate	All animal species except marine animals	No limit
317	Geranyl isobutyrate	All animal species except marine animals	No limit
318	Geranyl propionate	All animal species except marine animals	No limit
319	Glyceryl tributyrat	All animal species	No limit
320	Glycine	All animal species	No limit
321	Glycyrrhizic acid ammoniated	All animal species	No limit
322	Great mullein tincture derived from Verbascum thapsus L	Chickens for fattening	50
		Turkeys for fattening	
		Calves for fattening	
		Lambs and kids for fattening	
		Salmonids except for reproduction purposes	
		Rabbits for fattening	
323	Hept-4-enal	All animal species	No limit
324	Heptan-1-ol	All animal species	No limit
325	Heptan-2-one	All animal species	No limit
326	Heptanal	All animal species	No limit
327	Heptano-1,4-lactone	All animal species	No limit
328	Heptanoic acid	All animal species	No limit
329	Heptyl acetate	All animal species	No limit
330	Hex-3(cis)-en-1-ol	All animal species	No limit
331	Hex-3(cis)-enal	All animal species	No limit
332	Hex-3(cis)-enyl acetate	All animal species	No limit
333	Hex-3(cis)-enyl formate	All animal species	No limit
334	Hex-3(cis)-enyl isobutyrate	All animal species	No limit
335	Hex-3-enyl butyrate	All animal species	No limit
336	Hex-3-enyl hexanoate	All animal species	No limit
337	Hex-3-enyl isovalerate	All animal species	No limit
338	Hex-3-enyl lactate	All animal species	No limit
339	Hexadecanoic acid	All animal species	No limit
340	Hexan-1-ol	All animal species	No limit
341	Hexan-3,4-dione	All animal species	No limit
342	Hexanal	All animal species	No limit
343	Hexano-1,4-lactone	All animal species	No limit
344	Hexanoic acid	All animal species	No limit
345	Hexyl 2-methylbutyrate	All animal species	No limit
346	Hexyl acetate	All animal species	No limit

347	Hexyl butyrate	All animal species	No limit
348	Hexyl hexanoate	All animal species	No limit
349	Hexyl isobutyrate	All animal species	No limit
350	Hexyl isovalerate	All animal species	No limit
351	Hexyl lactate	All animal species	No limit
352	Hexyl phenylacetate	All animal species	No limit
353	Hexyl salicylate	All animal species	No limit
354	Indole	All animal species	No limit
355	Isobutyl acetate	All animal species	No limit
356	Isobutyl benzoate	All animal species	No limit
357	Isobutyl butyrate	All animal species	No limit
358	Isobutyl isobutyrate	All animal species	No limit
359	Isobutyl isovalerate	All animal species	No limit
360	Isoeugenol	Ruminants	No limit
		horses except those producing milk for human consumption	
		Pets	
361	Isopentanol	All animal species	No limit
362	Isopentyl 2-methylbutyrate	All animal species	No limit
363	Isopentyl benzoate	All animal species	No limit
364	Isopentyl cinnamate	All animal species-except marine animals	No limit
365	Isopentyl isobutyrate	All animal species	No limit
366	Isopropanol	All animal species	No limit
367	Isopropyl tetradecanoate	All animal species	No limit
368	L-Alanine	All animal species	No limit
369	L-Arginine	All animal species	No limit
370	L-Aspartic acid	All animal species	No limit
371	L-Cysteine	All animal species	No limit
372	L-Cysteine hydrochloride monohydrate	All animal species-except cats and dogs	No limit
373	L-Glutamic acid produced by Corynebacterium glutamicum	All animal species	No limit
374	L-Histidine	All animal species	No limit
375	L-Leucine	All animal species	No limit
376	L-Methionine	All animal species	No limit
377	L-Phenylalanine	All animal species	No limit
378	L-Proline	All animal species	No limit
379	L-Thyrosine	All animal species	No limit
380	L-Valine	All animal species	No limit
381	L-arginine produced by Corynebacterium glutamicum	All animal species	No limit
382	L-arginine produced by Escherichia coli	All animal species	No limit

383	L-cysteine hydrochloride monohydrate	Cats	No limit
		Dogs	
384	L-cysteine hydrochloride monohydrate Produced by fermentation with Escherichia coli	All animal species	No limit
385	L-cysteine hydrochloride monohydrate Produced by fermentation with Escherichia coli	All animal species	No limit
386	L-cystine produced by fermentation with Pantoea ananatis	All animal species	No limit
387	L-histidine monohydrochloride monohydrate produced by Escherichia coli	All animal species except fish	No limit
388	L-histidine monohydrochloride monohydrate produced by fermentation with: Corynebacterium glutamicum	All animal species	No limit
389	L-isoleucine produced by fermentation with Escherichia coli	All animal species	No limit
390	Lactic acid	All animal species	No limit
391	Lemon extract derived from the fruit of Citrus limon (L.) Osbeck (Synonym Citrus Limon (L.) Burm. f.) with propionic acid $\leq$ 1%	All animal species	No limit
392	Linalool oxide	All animal species-except fish	No limit
393	Linalyl acetate	All animal species	No limit
394	Litsea berry essential oil Essential oil obtained from the fruits of Litsea cubeba (Lour.) Pers	Laying hens	No limit
		Chickens for fattening	
		Turkeys for fattening	
		cows	
		Goats	
		Sheep	
		Rabbits	
		Horses	
395	Menthol	All animal species	No limit
396	Menthyl acetate	All animal species	No limit
397	Methanethiol	All animal species	No limit
398	Methyl 2-methyl-3-furyl disulfide	All animal species	No limit
399	Methyl 2-methylbutyrate	All animal species	No limit

400	Methyl 2-methylvalerate	All animal species	No limit
401	Methyl 3-(methylthio)propionate	All animal species	No limit
402	Methyl N-methylantranilate	All animal species-except avian species	No limit
403	Methyl anthranilate	All animal species-except avian species	No limit
404	Methyl benzoate	All animal species	No limit
405	Methyl butyrate	All animal species	No limit
406	Methyl cinnamate	All animal species-except marine animals	No limit
407	Methyl furfuryl Sulfide	All animal species	No limit
408	Methyl furfuryl disulfide	All animal species	No limit
409	Methyl hexanoate	All animal species	No limit
410	Methyl propionate	All animal species	No limit
411	Methylsulfinyl methane	All animal species	No limit
412	Monosodium L-glutamate Produced by fermentation with Corynebacterium glutamicum	All animal species	No limit
413	Monosodium glutamate	All animal species	No limit
414	Monosodium glutamate Produced by fermentation with Corynebacterium glutamicum	All animal species	No limit
415	Mugwort tincture produced from the fragmented aerial parts of Artemisia vulgaris L	All animal species	No limit
416	Naringin / (2S)-4H-1-Benzopyran-4-one,7-((2-O-(6-deoxy-alpha-L-mannopyranosyl)-beta-D-glucopyranosyl) oxy)-2,3-dihydro-5- hydroxy-2-(4-hydroxyphenyl)	All animal species	No limit
417	Neohesperidine dihydrochalcone	Calves	35
		Sheep	
		Fish	
		Doge	
418	Nerolidol	All animal species	No limit
419	Neryl acetate	All animal species-except marine animals	No limit
420	Neryl formate	All animal species-except marine animals	No limit
421	Neryl isobutyrate	All animal species-	No limit

		except marine animals	
422	Neryl propionate	All animal species- except marine animals	No limit
423	Non-6(cis)-enal	All animal species	No limit
424	Non-6-en-1-ol	All animal species	No limit
425	Nonan- 3- one	All animal species	No limit
426	Nonan-1-ol	All animal species	No limit
427	Nonanal	All animal species	No limit
428	Nonano-1,5-lactone	All animal species	No limit
429	Nonanoic acid	All animal species	No limit
430	Nonyl acetate	All animal species	No limit
431	Oct-3-en-1-ol	All animal species	No limit
432	Octan-1-ol	All animal species	No limit
433	Octan-2-ol	All animal species	No limit
434	Octan-3-ol	All animal species	No limit
435	Octanal	All animal species	No limit
436	Octano-1,5-lactone	All animal species	No limit
437	Octanoic acid	All animal species	No limit
438	Octyl acetate	All animal species	No limit
439	Octyl butyrate	All animal species	No limit
440	Oleic acid	All animal species	No limit
441	Pentan-1-ol	All animal species	No limit
442	Pentan-2,3-dione	All animal species	No limit
443	Pentan-2-ol	All animal species	No limit
444	Pentan-2-one	All animal species	No limit
445	Pentanal	All animal species	No limit
446	Pentano-1,4-lactone	All animal species	No limit
447	Pentyl butyrate	All animal species	No limit
448	Pentyl hexanoate	All animal species	No limit
449	Pentyl isovalerate	All animal species	No limit
450	Pentyl salicylate	All animal species	No limit
451	Petitgrain bigarade essential oil; Citrus aurantium L	Laying hens	No limit
		Chickens for fattening	
		Turkeys for fattening	
		Cow	
		Goats	
		Sheep	
		Sallmon	
		Rabbits	
		Horses	
452	Phenethyl 2-methyl-butyrate	All animal species	No limit
453	Phenethyl benzoate	All animal species	No limit
454	Phenethyl butyrate	All animal species	No limit
455	Phenethyl formate	All animal species	No limit
456	Phenethyl isobutyrate	All animal species	No limit

457	Phenethyl octanoate	All animal species	No limit
458	Pin-2(10)- ene	All animal species	No limit
459	Pin-2(3)- ene	All animal species	No limit
460	Piperine	All animal species	No limit
461	Prenyl acetate	All animal species- except marine animals	No limit
462	Preparation of the leaves extract of Melissa officinalis L. (with a minimum content of 50 %) with maltodextrin and silicon dioxide	All animal species	No limit
463	Propanal	All animal species	No limit
464	Propane-2-thiol	All animal species	No limit
465	Propionic acid	All animal species	No limit
466	Propyl acetate	All animal species	No limit
467	Propyl hexanoate	All animal species	No limit
468	Pyrrolidine	All animal species	No limit
469	Residual fraction of expressed lemon oil distilled obtained by the distillation of lemon essential oil expressed from fruit peel of Citrus limon (L.) Osbeck	Laying hens	35
		Chickens for fattening	
		Turkeys for fattening	
		Sallmon	40
		Cow	90
470	S-Furfuryl acetothioate	All animal species	No limit
471	S-Methyl butanethioate	All animal species	No limit
472	Salicylaldehyde	All animal species	No limit
473	Smoke flavouring extract	Doge	40
		Cat	
474	Succinic acid	All animal species	No limit
475	Tannic acid	All animal species	No limit
476	Taurine	All animal species	No limit
477	Terpineol	All animal species	No limit
478	Tetradecanoic acid	All animal species	No limit
479	Thaumatococin	All animal species	No limit
480	Thiamine hydrochloride	Doge	No limit
		Cat	
481	Tridec-2-enal	All animal species	No limit
482	Triethyl citrate	All animal species	No limit
483	Trimethylamine	All animal species- except laying hens	No limit
484	Trimethylamine hydrochlorid	All animal species- except laying hens	No limit
485	Trimethyloxazole	All animal species	No limit
486	Turmeric essential oil.	All animal species	No limit

	Essential oil derived by steam distillation from the dried rhizomes of <i>Curcuma longa</i>		
487	Turmeric extract. Extract of dried rhizomes <i>Curcuma longa</i> L. using organic solvents	All animal species	No limit
488	Turmeric oleoresin. Oleoresin obtained by solvent extraction of dried rhizomes of <i>Curcuma longa</i> L	All animal species	No limit
489	Turmeric tincture. Tincture produced by extraction of ground-dried rhizomes of <i>Curcuma longa</i> L. using a water/ethanol mixture	Doge	No limit
		Horses	
490	Undecanal	All animal species	No limit
491	Undecano-1,5-lactone	All animal species	No limit
492	Valeric acid	All animal species	No limit
493	Vanillyl acetone / CAS No. 122-48-5	All animal species	No limit
494	<i>Vitis vinifera</i> spp. Vinifera: Dry grape extract (mixture of seed and skin extract)	All animal species-except dogs	No limit
495	Ylang ylang essential oil obtained from the flowers of <i>Cananga odorata</i> (Lam) Hook f. & Thomson Liquid form	All animal species-except cats	No limit
496	<i>Zingiber officinale</i> Roscoe: Ginger essential oil	All animal species	No limit
497	<i>Zingiber officinale</i> Roscoe: Ginger oleoresin	Laying hens	No limit
		Chickens for fattening	
		Turkeys for fattening	
		Cow	
		Goats	
		Sheep	
		Fish	
		Rabbits	
		Horses	
		Pets	
498	<i>Zingiber officinale</i> Roscoe: Ginger tincture	Doge	No limit
		Horses	
499	alpha-Methylcinnamaldehyde	All animal species-except marine animals	No limit
500	alpha-Terpineol	All animal species	No limit
501	beta-Alanine	All animal species	No limit
502	beta-caryophyllene	All animal species	No limit
503	d,l-Isomenthone	All animal species	No limit

504	d-Carvone	All animal species	No limit
505	d-Limonene	All animal species - except malerats	No limit
506	delta-3- Carene	All animal species	No limit
507	p-Menth-1-ene-8-thiol	All animal species	No limit
508	p-Tolualdehyde	All animal species	No limit
509	sec-Pentylthiophene	Doge Cat	No limit
510	α -Hexylcinnamaldehyde	All animal species	No limit
511	α -Pentylcinnamaldehyde	All animal species	No limit

قائمة بالإضافات العلفية الغذائية جدول رقم (10)

3.6

NUTRITIONAL ADDITIVES			
No.	Additive	Species or category of anima	Maximum content mg/kg of comp
1	Riboflavin' or 'Vitamin B2'	All animal species	No limit
2	Ascorbic acid or Vitamin C	All animal species	No limit
3	Beta-caroten	All animal species	No limit
4	Betaine anhydrous	All animal species	No limit
5	Betaine anhydrous produced from genetically modified sugar beet	Food-producing animals -except rabbits -	No limit
6	Betaine hydrochloride	All animal species	No limit
7	Biotin	All animal species	No limit
8	folic acid	All animal species	No limit
9	Choline chloride	All animal species	No limit
10	D-panthenol	All animal species	No limit
11	Inositol	Crustaceans Fish	No limit
12	L-carnitine	All animal species	No limit
13	L-carnitine L-tartrate (LCLT)	All animal species	No limit
14	Menadione nicotinamide bisulphite or Vitamin K3	All animal species	No limit
15	Menadione sodium bisulphite or Vitamin K3	All animal species	No limit
16	Niacin	All animal species	No limit
17	Niacinamide	All animal species	No limit

18	Pyridoxine hydrochloride or vitamin B6	All animal species		No limit
19	Retinyl acetate, or Vitamin A*	Chickens	≤ 14 days	20 000
			>14 days	10 000
		Turkey	≤ 28 days	20 000
			> 28 days	10 000
		Other poultry		10 000
		Dairy and reproduction cows		9 000
		Calves for rearing	Max 4 months	16 000
		Other cows ,calves		25 000
		Lambs and farming lambs	≤2 months	16 000
			> 2 months	No limit
		Cattle, sheep and goats for fattening		10 000
		Other bovines sheep and goats		No limit
		Mammals (Milk replacers only)		25 000
		Other animal species		No limit
20	Retinyl palmitate or Vitamin A*	Chickens	≤ 14 days	20 000
			>14 days	10 000
		Turkey	≤ 28 days	20 000
			> 28 days	10 000
		Other poultry		10 000
		Dairy and reproduction cows		9 000
		Calves for rearing	Max 4 months	16 000
		Other cows, calves		25 000
		Lambs and farming lambs	≤2 months	16 000
			> 2 months	No limit
		Cattle, sheep and goats for fattening		10 000
		Other bovines sheep and goats		No limit
		Mammals (Milk replacers only)		25 000
		Other animal species		No limit
21	Retinyl propionate or Vitamin A*	Chickens	≤ 14 days	20 000
			>14 days	10 000
		Turkey	≤ 28 days	20 000
			> 28 days	10 000
		Other poultry		10 000
		Dairy and reproduction		9 000

		COWS		
		Calves for rearing	Max 4 months	16 000
		Other cows, calves		25 000
		Lambs and farming lambs	≤2 months	16 000
			> 2 months	No limit
		Cattle, sheep and goats for fattening		10 000
		Other bovines sheep and goats		No limit
22	Sodium ascorbyl phosphate or Vitamin C	All animal species	No limit	
23	Sodium calcium ascorbyl phosphate or Vitamin C	All animal species	No limit	
24	Sodium iodide	Horses	4	
		Fish	20	
		Other animal species	10	
25	Taurine	Carnivorous fish	No limit	
		Mustelidae		
		Canidae		
		Felidae		
26	Thiamine hydrochloride or Vitamin B1	All animal species	No limit	
27	Thiamine mononitrate or Vitamin B1	All animal species	No limit	
28	Vitamin E /all-rac-alpha-tocopheryl acetate	All animal species	No limit	
29	Vitamin E/RRR alpha tocopheryl	All animal species	No limit	
30	Vitamin E/RRR alpha tocopherol	All animal species	No limit	
31	'Cholecalciferol' or 'Vitamin D3'	Broiler	5 000	
		Turkey		
		Other poultry	3 200	
		cows	4 000	
		Sheep		
		Horses		
		Fish	3 000	
		Salmond	60 000	
		Calves (Milk replacers)	10 000	
		Other animals	2 000	
32	ydroxyl-25 Cholecalciferol	broiler & turkey	0,1	
		Other poultry	0,08	
33	'Phytomenadione' or 'Vitamin K1'	Horses	No limit	
34	'Riboflavin 5'- phosphate monosodium salt' or 'Vitamin	All animal species	No limit	

	B2'		
35	'Riboflavin' or 'Vitamin B2': - produced by <i>Ashbya gossypii</i>	All animal species	No limit
36	'Riboflavin' or 'Vitamin B2': - solid form produced by <i>Bacillus subtilis</i>	All animal species	No limit
37	'Vitamin B12' or 'cyanocobalamin' produced by <i>Ensifer adhaerens</i>	All animal species	No limit
38	Calcium iodate, anhydrous	Fish	20
		Horses	4
		Other animals	10
39	Calcium iodate, hexahydrate	Fish	20
		Horses	4
		Other animals	10
40	Coated granulated calcium iodate, anhydrous	Ruminants (milk production)	5
		laying hens	
		Fish	20
		Equines	4
		Other animals	10
41	Calcium-D-pantothenate	All animal species	No limit
42	Panthenol-D	All animal species	No limit
43	Coated granulated cobalt(II) carbonate	Ruminants	1
		Rodents	
		Horses	
		Lagomorpha	
		Zoo animals	
44	Coated granulated sodium selenite	All animal species	0,5
45	Cupric acetate, monohydrate	Calves-except milk substitutes -	50
		Calves(milk substitutes only)	30
		Sheep	15
		Other animals	35
46	Basic cupric carbonate, monohydrate	Calves-except milk substitutes -	50
		Calves(milk substitutes only)	30
		Sheep	15
		Other animals	35
47	Cupric chloride, dihydrate	Calves-except milk substitutes -	50
		Calves(milk substitutes only)	30
		Sheep	15

		Other animals	35
48	Cupric methionate	Calves-except milk substitutes -	50
		Calves(milk substitutes only)	30
		Sheep	15
		Other animals	35
49	Cupric oxide	Calves-except milk substitutes -	50
		Calves(milk substitutes only)	30
		Sheep	15
		Other animals	35
50	Cupric sulphate, pentahydrate	Calves-except milk substitutes-	50
		Calves(milk substitutes only)	30
		Sheep	15
		Other animals	35
51	Cupric sulphate, monohydrate	Calves-except milk substitutes -	50
		Calves(milk substitutes only)	30
		Sheep	15
		Other animals	35
52	Cupric chelate of amino acids hydrate	Calves-except milk substitutes -	50
		Calves(milk substitutes only)	30
		Sheep	15
		Other animals	35
53	DL-selenomethionine	All animals	0,5
54	Dicopper chloride trihydroxide	Bovines-before the start of rumination-	15
		Other bovines	30
		Ovines	15
		crustaceans	50
		Caprines	35
		Other animals	25
55	Dimanganese chloride rihydroxide	Fish	100
		Other animals	150
56	Hydroxy-analogue of selenomethionine	All animal species	0,5
57	L-selenomethionine	All animals	0,5
58	Potassium iodide	Fish	20

		Horses	4
		Other animals	10
59	copper (II) amino acid complex	Bovines-before the start of rumination-	15
		Other bovines	30
		Ovines	15
		crustaceans	50
		Caprines	35
		Other animals	25
60	Selenised yeast Saccharomyces cerevisiae	All animals	0,5
61	Selenomethionine produced by Saccharomyces cerevisiae	All animals	0,5
62	Sodium molybdate dihydrate	Sheep	2,5
63	Sodium selenite	All animals	0,5
64	Zinc acetate, dihydrate	All animals	250
65	Zinc bislysinate	Salmonids	180
		Milk replacers for calves	
		Doge	200
		Cat	
		Rabbit	150
		Fish	
		Other animals	120
66	Zinc chelate of amino acids hydrate	All animals	250
67	Zinc chelate of glycine, hydrate (liquid)	Fish	150
		Rabbit	
		Salmonids	180
		Milk replacers for calves	
		Doge	200
		Cat	
		Other animals	120
68	Zinc chelate of glycine, hydrate (solid)	Fish	150
		Rabbit	
		Salmonids	180
		Milk replacers for calves	
		Doge	200
		Cat	
		Other animals	120
69	Zinc chelate of ydroxyl analogue of methionine	Fish	150
		Rabbit	
		Salmonids	180
		Milk replacers for calves	
		Doge	200
		Cat	

		Other animals	120
70	Zinc chelate of lysine and glutamic acid	Fish	150
		Rabbit	
		Salmonids	180
		Milk replacers for calves	
		Doge	200
		Cat	
		Other animals	120
71	Zinc chelate of methionine (1:2)	Fish	200
		Pet animal	250
		Complete and complementary replacers milk	200
		Other animals	150
72	Zinc chelate of methionine sulfate	Fish	150
		Rabbit	
		Salmonids	180
		Milk replacers for calves	
		Doge	200
		Cat	
		Other animals	120
73	Zinc chelate of protein hydrolysates	Fish	150
		Rabbit	
		Salmonids	180
		Milk replacers for calves	
		Doge	200
		Cat	
		Other animals	120
74	Zinc chloride anhydrous	Fish	150
		Rabbit	
		Salmonids	180
		Milk replacers for calves	
		Doge	200
		Cat	
		Other animals	120
75	Zinc chloride hydroxide monohydrate	Fish	200
		Pets animals	250
		Complete and complementary milk replacers	200
		Other animals	150
76	Zinc oxide	All animals	250
77	Zinc sulphate, heptahydrate	All animals	250
78	Zinc sulphate, monohydrate	All animals	250
79	Zinc-L-selenomethionine	All animals	0,5
80	Zinc lactate, trihydrate	All animals	250
81	Zinc carbonate	All animals	250

82	Zinc chloride, monohydrate	All animals	250
83	DL-methionyl- DL-methionine	Crustaceans	No limit
		Fish	
84	Guanidinoacetic acid	Chickens for fattening	1200
85	Hydroxy analogue of methionine	All animal species	No limit
86	Isopropyl ester of hydroxyl analogue of methionine	Ruminants	No limit
87	L-Glutamic acid produced by <i>Corynebacterium glutamicum</i>	All animal species	No limit
88	L-arginine produced by <i>Corynebacterium glutamicum</i>	All animal species	No limit
89	L-arginine produced by <i>Escherichia coli</i>	All animal species	No limit
90	L-cystine	All animal species	No limit
91	L-cystine produced by fermentation with <i>Pantoea ananatis</i>	All animal species	No limit
92	L-glutamine produced by fermentation with <i>Corynebacterium glutamicum</i>	All animal species	No limit
93	L-histidine monohydrochloride monohydrate produced by <i>Escherichia coli</i>	All animal species	No limit
94	L-histidine monohydrochloride monohydrate produced by fermentation with: <i>Corynebacterium glutamicum</i>	All animal species	No limit
95	L-isoleucine produced by fermentation with <i>Corynebacterium glutamicum</i>	All animal species	No limit
96	L-isoleucine produced by fermentation with <i>Escherichia coli</i>	All animal species	No limit
97	L-leucine produced by fermentation with <i>Escherichia coli</i>	All animal species	No limit
98	L-lysine base, liquid produced by fermentation with: <i>Corynebacterium casei</i>	All animal species	No limit
99	L-lysine base, liquid. L-lysine produced by fermentation with <i>Escherichia coli</i>	All animal species	No limit
100	L-lysine monohydrochloride produced by fermentation with <i>Corynebacterium glutamicum</i>	All animal species	No limit
101	L-lysine monohydrochloride produced by fermentation with:	All animal species	No limit

	Escherichia coli		
102	L-lysine monohydrochloride, technically pure produced by fermentation with Escherichia coli	All animal species	No limit
103	L-lysine monohydrochloride, technically pure produced by fermentation with: Corynebacterium casei	All animal species	No limit
104	L-lysine produced by fermentation with: Corynebacterium glutamicum	All animal species	No limit
105	L-lysine sulphate produced by fermentation with Corynebacterium glutamicum	All animal species	10 000
106	L-lysine sulphate produced by fermentation with Escherichia coli	All animal species	10 000
107	L-methionine produced by fermentation with Corynebacterium glutamicum	All animal species	No limit
108	L-methionine produced by fermentation with Escherichia coli	All animal species	No limit
109	L-threonine produced by fermentation with Escherichia coli	All animal species	No limit
110	L-threonine produced by fermentation with: Corynebacterium glutamicum	All animal species	No limit
111	L-tryptophan produced by fermentation with Escherichia coli	All animal species	No limit
112	L-tyrosine	All animal species	No limit
113	L-valine produced by Corynebacterium glutamicum	All animal species	No limit
114	L-valine produced by Escherichia coli	All animal species	No limit
115	Monosodium glutamate produced by Corynebacterium glutamicum	All animal species	No limit
116	Sodium DL- methionine, liquid	All animal species	No limit
117	Urea	Ruminants with a functional rumen	8 800
118	Ferrous carbonate	All animal species	1 250
119	Ferrous chloride, tetrahydrate	All animal species	1 250
120	Ferric chloride, hexahydrate	All animal species	1 250
121	Ferrous citrate, hexahydrate	All animal species	1 250

122	Ferrous fumarate	All animal species	1 250
123	Ferrous lactate, trihydrate	All animal species	1 250
124	Ferric oxide	All animal species	1 250
125	Ferrous sulphate, monohydrate	All animal species	1 250
126	Ferrous sulphate, heptahydrate	All animal species	1 250
127	Ferrous chelate of aminoacids,hydrate	All animal species	1 250
128	Iron chelate of lysine and glutamic acid	Poultry	450
		Bovines	500
		Ovine	600
		Pet animals	750
		Others	750
129	Iron(II) chelate of glycine hydrate	Poultry	450
		Bovines	500
		Ovine	600
		Pet	750
		Others	750
130	Iron(II) chelate of protein hydrolysates	Poultry	450
		Bovines	500
		Ovine	600
		Pet	750
		Others	750
131	Cobaltous acetate, tetrahydrate	All animal species	10
132	Basic cobaltous carbonate,monohydrate	All animal species	10
133	Cobaltous chloride,hexahydrate	All animal species	10
134	Cobaltous sulphate,heptahydrate	All animal species	10
135	Cobaltous sulphate,monohydrate	All animal species	10
136	Cobaltous nitrate, hexahydrate	All animal species	10
137	Manganous carbonate	All animal species	250
138	Manganous chloride,tetrahydrate	All animal species	250
139	Manganous hydrogen phosphate, trihydrate	All animal species	250
140	Manganous oxide	All animal species	250
141	Manganic oxide	All animal species	250
142	Manganous sulphate,tetrahydrate	All animal species	250
143	Manganous sulphate,monohydrate	All animal species	250
144	Manganese chelate of amino acids hydrate	All animal species	250

145	Manganomanganic oxide	All animal species	150
146	Monocalcium phosphate	All animal species	No limit
147	Dicalcium phosphate	All animal species	No limit
148	Tricalcium phosphate	All animal species	No limit
149	Phosphorus	All animal species	No limit
150	Disodium phosphate	All animal species	No limit
151	Monosodium phosphate	All animal species	No limit

* IU/kg

قائمة بالإضافات العلفية الحيوية جدول رقم (11)

4.6

ZOOTECNICAL ADDITIVES			
No.	Additive	Species or category of animal	Maximum content mg/kg of comp
1	3-phytase produced by <i>Komagataella pastoris</i>	Poultry	No limit
2	3-phytase produced by <i>Komagataella phaffii</i>	Poultry	No limit
		Turkeys	
3	3-phytase produced by <i>Aspergillus niger</i>	Poultry	No limit
		Ducks	
		Birds	
		Turkeys	
4	6-Phytase produced by <i>Aspergillus oryzae</i>	Poultry	No limit
5	6-Phytase produced by <i>Schizosaccharomyces</i>	Poultry	No limit
		Ducks	
		Turkeys	
6	6-phytase produced by <i>Trichoderma reesei</i> Solid	Poultry	No limit
7	6-phytase produced by <i>Trichoderma reesei</i> Liquid	Poultry	No limit
8	Endo-1,3(4)-beta-glucanase Endo-1,4-beta-xylanase / EC 3.2.1.8 produced by <i>Aspergillus niger</i>	Poultry	No limit
9	Endo-1,4-beta-mannanase	Poultry	No limit
		Turkeys	
10	Endo-1,4-beta-xylanase	All laying poultry	No limit
11	Endo-1,4-beta-xylanase	Poultry	No limit

	produced by <i>Bacillus subtilis</i>		
12	Endo-1,4-beta-xylanase produced by <i>Komagataella phaffii</i>	Poultry	No limit
13	Endo-1,4-beta- produced by <i>Trichoderma citrinoviride</i> Bisset	Poultry	No limit
		Turkeys	
		Fish(Carp)	
14	Endo-1,4-beta-xylanase produced by <i>Trichoderma longibrachiatum</i>	Poultry (Chickens for fattening)	No limit
15	Endo-1,4-beta-xylanase produced by <i>Aspergillus niger</i>	Poultry (Chickens for fattening)	No limit
		Birds (other than laying birds)	
		Turkeys	
16	Endo-1,4-beta-xylanase produced by <i>Trichoderma longibrachiatum</i>	Poultry	No limit
		Ornamental birds	
17	Fermentation product of <i>Aspergillus oryzae</i>	Dairy cows	300
18	Preparation 6-phytase produced by <i>Komagataella pastoris</i>	Poultry	No limit
		Turkeys	
		Birds	
		Fish	
19	Preparation 6-phytase produced by <i>Komagataella phaffii</i>	Poultry	No limit
		Ornamental birds	
20	Preparation of 6-phytase produced by <i>Schizosaccharomyces pombe</i>	Poultry	No limit
		Turkeys	
		Ducks	
		Birds	
21	Preparation of 6-phytase produced by <i>Trichoderma reesei</i>	Poultry	No limit
22	Preparation of 6-phytase produced by <i>Komagataella pastoris</i>	Poultry	No limit
		Turkeys	
		Birds	
23	Preparation of 6-phytase, produced by <i>Aspergillus niger</i>	Poultry	No limit
		Turkeys	

		Birds	
24	Preparation of alpha-amylase produced by <i>Bacillus licheniformis</i>	Dairy cows	No limit
25	Preparation of alpha-galactosidase produced by <i>Saccharomyces cerevisiae</i>	Poultry (Chickens for fattening)	No limit
26	Preparation of carvacrol, thymol, D-carvone, methyl salicylate and L-menthol	Poultry	105
		Turkeys	
27	Preparation of endo-1,3(4)-beta-glucanase and endo-1,4-beta-xylanase produced by <i>Talaromyces versatilis</i> sp.	Poultry	No limit
28	Preparation of endo-1,3(4)-beta-glucanase produced by <i>Aspergillus aculeatinus</i>	Birds	No limit
		Poultry	
29	Preparation of endo-1,3(4)-beta-glucanase produced by <i>Trichoderma reesei</i>	Poultry (Chickens for fattening)	No limit
30	Preparation of endo-1,4-beta-xylanase produced by <i>Trichoderma reesei</i>	Poultry	No limit
		Ornamental birds	
31	Preparation of endo-1,4-beta-mannanase produced by <i>Paenibacillus lentus</i>	Poultry	No limit
		Turkeys	
32	Preparation of endo-1,4-beta-xylanase and endo-1,3(4)-beta-glucanase produced by <i>Talaromyces versatilis</i> sp.	Poultry	No limit
		Turkeys	
33	Preparation of endo-1,4-beta-xylanase produced by <i>Trichoderma reesei</i>	Poultry	No limit
34	Preparation of endo-1,4-beta-xylanase produced by <i>Aspergillus oryzae</i>	Poultry for Fattening	No limit
35	Preparation of endo-1,4-beta-xylanase produced by <i>Bacillus subtilis</i>	Poultry	No limit
		Turkeys	
36	Preparation of endo-1,4-beta-xylanase produced by <i>Trichoderma reesei</i>	Poultry	No limit
		Turkeys	
		Ducks	
37	Preparation of endo-1,4-betaglucanase produced by	Poultry for fattening	No limit

	Trichoderma citrinoviride Bisset		
38	Preparation of endo-1,4- β -xylanase produced by Trichoderma reesei	Minor poultry	No limit
39	Solid and liquid preparation of serine protease produced by Bacillus licheniformis	Poultry (Chickens for fattening)	No limit
40	Bacillus amyloliquefaciens	Poultry	No limit
41	Bacillus coagulans	Poultry for fattening Ornamental birds	No limit
42	Bacillus licheniformis	Poultry Birds	No limit
43	Bacillus subtilis	Poultry (Chickens for Fattening) Cows (Calves)	No limit
44	Bacillus subtilis	Turkeys for fattening Cows (Calves)	No limit
		Poultry (Chickens for Fattening)	No limit
		Poultry (except minor poultry for laying) Ornamental birds	No limit
		Poultry Ornamental fish	No limit
		Poultry (Chickens for Fattening)	No limit
		Ornamental birds	No limit
		Poultry (other than laying)	No limit
		Poultry (Laying hens)	No limit
45	Bacillus velezensis	Ornamental birds	No limit
46	Bifidobacterium animalis ssp.	Poultry (other than laying)	No limit
47	Enterococcus	Poultry (Laying hens)	No limit
48	Enterococcus faecium	Poultry	No limit
		Turkeys	
		Cows	
		Dogs	
		Cats	
49	Lactobacillus acidophilus	Poultry (Laying hens)	No limit
		Dogs	
		Cats	
		Poultry	
		Ornamental birds	
50	Lactococcus lactis	Poultry (Chickens for	No limit

		Fattening)	
51	Limosilactobacillus reuteri	Dogs	No limit
		Cats	
52	Pediococcus acidilactici	Birds	No limit
		Fish	
		crustaceans	
53	Preparation of Clostridium butyricum	Poultry	No limit
		Turkeys	
		Birds (excluding laying birds)	
54	3-nitrooxypropanol	Cows	80
55	Ammonium chloride	Dogs	5 000
		Cats	5 000
		Lambs	10000
		Ruminants (other than lambs)	10 000 for a feeding period not exceeding three months \ 5 000 for a feeding period exceeding three months
56	Bacillus licheniformis	Poultry	No limit
		Birds	
57	Canthaxanthin	Poultry (Breeder hens)	6
58	Conjugated linoleic acid (t10, c12)- methylester	Dairy Cows	350
59	Dimethylglycine sodium salt	Poultry (Chickens for fattening)	1000
60	Enterococcus faecium	Dogs	No limit
		Cats	
		Cows (Calves)	
61	Lanthanum carbonate octahydrate	Cats	7500
62	Pediococcus acidilactici	Birds	No limit
		Fish	
		crustaceans	
63	Preparation of Eugenol	Poultry (Chickens for fattening)	100
64	Preparation of benzoic acid, calcium formate and fumaric acid	Poultry	1000
		Turkeys	
65	Preparation of benzoic acid, thymol, eugenol, piperine	Poultry	300
66	Preparation of carvacrol, cinnamaldehyde and capsicum oleoresin	Poultry (Chickens for fattening)	100

67	Preparation of carvacrol, thymol, D-carvone, methyl salicylate and L-menthol	Poultry	105
68	Preparation of muramidase produced by <i>Trichoderma reesei</i>	Poultry	No limit
		Turkeys	
69	Preparation of protected microbeads containing citric acid, sorbic acid, thymol and vanillin	Poultry	No limit
		Turkeys	
		Birds	
70	Thyme oil	Poultry	150
		Birds	

المعونات الحيوية (البروبيوتيك) المصرح باستخدامها في الأعلاف جدول رقم (12)

5.6

اسم الميكروب	
<i>Aspergillus niger</i>	<i>Lactobacillus curvatus</i>
<i>Aspergillus oryzae</i>	<i>Lactobacillus delbruekii</i>
<i>Bacillus coagulans</i>	<i>Lactobacillus fermentum</i>
<i>Bacillus lentus</i>	<i>Lactobacillus helveticus</i>
<i>Bacillus licheniformis</i>	<i>Lactobacillus lactis</i>
<i>Bacillus pumilus</i>	<i>Lactobacillus plantarum</i>
<i>Bacillus subtilis</i>	<i>Lactobacillus euterii</i>
<i>Bacteroides amylophilus</i>	<i>Leuconostoc mesenteroides</i>
<i>Bacteroides capillosus</i>	<i>Pediococcus acidilacticii</i>
<i>Bacteroides ruminicola</i>	<i>Pediococcus cerevisiae</i> (<i>damnosus</i>)
<i>Bacteroides suis</i>	<i>Pediococcus pentosaceus</i>
<i>Bifidobacterium adolescentis</i>	<i>Propionibacterium freudenreichii</i>
<i>Bifidobacterium animalis</i>	<i>Propionibacterium shermanii</i>
<i>Bifidobacterium bifidum</i>	<i>Saccharomyces cerevisiae</i>
<i>Bifidobacterium infantis</i>	<i>Streptococcus cremoris</i>
<i>Bifidobacterium longum</i>	<i>Streptococcus diacetylactis</i>
<i>Bifidobacterium thermophilum</i>	<i>Streptococcus faecium</i>
<i>Lactobacillus acidophilus</i>	<i>Streptococcus intermedius</i>
<i>Lactobacillus brevis</i>	<i>Streptococcus lactis</i>
<i>Lactobacillus bulgaricus</i>	<i>Streptococcus thermophilus</i>
<i>Lactobacillus casei</i>	Yeast (as defined elsewhere)
<i>Lactobacillus cellobiosus</i>	

6.6 قائمة البكتيريا المصرح باستخدامها في الأعلاف وتشمل: -

1.6.6 البكتيريا موجبة صبغة الجرام والتي تنتمي لعائلة الباسيلس (*Bacillus*)مثل: (*Bacillus cereus* var *toyoi*, *B. subtilis*, *B. Licheniformis*)2.6.6 البكتيريا التي تنتمي لعائلة انتيروكوكس مثل: (*Enterococcus faecium*)

3.6.6 البكتيريا التي تنتمي لعائلة الالكتوباسيلس مثل:

(*Lactobacillus acidophilus*, *L. casei*, *L. farciminis*, *L. plantarum*, *L.*

rhamnosus)

- | | |
|--|-------|
| البكتيريا من عائلة Pediococcus مثل: (p .acidilactici) | 4.6.6 |
| البكتيريا من عائلة Streptococcus مثل: (S.infantarius) | 5.6.6 |
| بعض الاعفان والخمائر Fungi and yeast مثل: | 6.6.6 |
| Saccharomyces cerevisae or Kluyveromyces species | |