

SCHEDULE 7

Regulation 16 and Schedule 1, paragraph

20

CONTROL OF CERTAIN PROTEIN SOURCES

Column 1	Column 2	Column 3	Column 4	Column 5(1)	Column 6	Column 7(1)
<i>Name of product group</i>	<i>Permitted products</i>	<i>Designation of nutritive principle or identity of micro-organisms</i>	<i>Culture substrate (specifications if any)</i>	<i>Composition characteristics of product</i>	<i>Animal species</i>	<i>Name of product and specified particulars</i>
<p>1. Proteins obtained from the following groups of micro-organisms</p> <p>1.1. Bacteria</p> <p>1.1.1. Bacteria</p> <p>1.1.1.1. Protein</p>						
	<p>cultivated product on methanol fermentation obtained by culture of <i>Methylophilus methylotrophus</i> on methanol</p>	<p><i>Methylophilus methylotrophus</i> NCIB strain 10.515</p>	<p>Methanol</p>	<p>protein: min 68%— Reflectance index: at least 50</p>	<p>Pigs, calves, poultry and fish</p>	<p>Declarations to be made on the label or packaging of the product:</p> <ul style="list-style-type: none"> — name of the product; — protein; — ash — fat; — moisture content; — instructions for use; — avoid inhalation of dust <p>Declarations to be made on the label or packaging of</p>

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						compound feeding stuffs: — amount of the product contained in the feeding stuff

1.2. Yeasts

1.2.1. Yeasts cultivated on substrates of animal or vegetable origin	— Yeasts obtained from the micro-organisms and substrates listed in columns 3 and 4, the cells of which have been killed }	Saccharomyces cerevisiae Saccharomyces carlsbergiensis Kluyveromyces fragilis	Molasses, distillery residues, cereals and products containing starch, fruit juice, whey, lactic acid, hydrolyzed vegetable fibres }	—	All animal species	—
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1.2.2. Yeasts
cultivated on substrates other than those given in 1.2.1.

1.3. Algae

1.4. Lower fungi

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1.4.1. Products from production of antibiotics by fermentation	1.4.1.1. Mycelium from wet product from production of penicillin, ensiled by means of <i>lactobacillus brevis</i> , <i>plantarum</i> , <i>sake</i> , <i>collenoid</i> and <i>streptococcus lactis</i> to inactivate the penicillin, and heat treated	Nitrogenous compound Penicillium chrysogenum ATCC 48271	Different sources of carbohydrates and their hydrolysates	Nitrogen expressed as protein: min. 7%	Ruminants pigs	Declaration to be made on the label or packaging of the product: — the name: “Mycelium silage from the production of penicillin”; — Nitrogen expressed as protein; — ash; — moisture; — animal species or category
						Declaration to be made on the label or packaging of the compound feeding stuff: in the name: “mycellium silage from the production of penicillin”.

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2. Non-protein nitrogenous compounds						
2.1. Urea and its derivatives	2.1.1. Urea technically pure	$\text{CO}(\text{NH}_2)_2$	—	Urea: min. 97% }	Ruminants from the beginning of rumination }	Declarations to be made on the label or packaging of the product: — the name “Urea” “Biuret”, “Urea-phosphate” or “Diureidoisobutane”, as the case may be; — nitrogen level; and in addition for product 2.1.3., phosphorus level;
	2.1.2. Biuret technically pure	$(\text{CONH}_2)_2\text{-NH}$	—	Biuret: min. 97% }		
	2.1.3. Urea phosphate, technically pure	$\text{CO}(\text{NH}_2)_2 \cdot \text{H}_3\text{PO}_4$	—	Nitrogen: min. 16.5% } Phosphorus: min. 18% }		
	2.1.4. Diureidoisobutane technically pure	$(\text{CH}_3)_2\text{C}(\text{NH}_2)\text{-NHCONH}_2$	—	Nitrogen: min. 30% } Isobutyraldehyde: min. 35% }		
						Declarations to be made on the label or packaging of compound feeding stuffs:

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— the name: “Urea”, “Biuret”, “Urea-phosphate” or “Diureidoisobutane”, as the case may be;

— amount of the product contained in the feeding stuff;

— percentage of the total protein provided by non-protein nitrogen;

— indication, in the instructions for use, of the level of total non-protein nitrogen which should not be exceeded

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in the daily ration of each animal species or category

2.2. Ammonium salts	2.1. Ammonium lactate, produced by fermentation with <i>Lactobacillus bulgaricus</i>	CH_3COONH_4	CH_3COONH_4	Nitrogen expressed as protein: min. 44%	Ruminants from the beginning of rumination	Declarations to be made on the label or packaging of the product:
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- the name: “Ammonium lactate from fermentation”;
- nitrogen expressed as protein;
- ash;
- moisture;
- animal species or category

Declarations to be made on the label or packaging of compound feeding stuffs:

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- the name: “Ammonium lactate from fermentation”;
- amount of product contained in the feeding stuff;
- percentage of the total protein provided by non-protein nitrogen;
- indication, in the instructions for use of the level of total non-protein nitrogen which should not be exceeded in the daily ration of each animal

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	2.2.2. Ammonium acetate in aqueous solution	$\text{CH}_3\text{COONH}_4$		Ammonium acetate: min. 55%	Ruminants from the start of rumination	species or category Declarations to be made on the label or packaging of the product: — the words “Ammonium acetate”; — nitrogen content; — moisture content; — animal species or category Declarations to be made on the label or packaging of compound feeding stuffs: — the words “Ammonium acetate”; — the amount of the product contained in the

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						feeding stuff; — percentage of the total protein provided by non-protein nitrogen; — indication in the instructions for use of the level of total non-protein nitrogen which should not be exceeded in the daily ration for each animal species or category.
	2.2.3. Ammonium sulphate in aqueous solution	(NH ₄) ₂ SO ₄ —		Ammonium sulphate: min. 35%	Ruminants, from the start of rumination	Declarations to be made on the label or packaging of the product:

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						<ul style="list-style-type: none"> — the words “Ammonium sulphate”; — nitrogen and moisture contents; — animal species; — in the case of young ruminants, the incorporation rate in the daily ration may not exceed 0.5%; <p>Declarations to be made on the label or packaging of the compound feeding stuffs:</p> <ul style="list-style-type: none"> — the words “Ammonium sulphate”; — the amount of the product

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						contained in the feeding stuff; — percentage of the total protein provided by non-protein nitrogen; — indication in the instructions for use of the level of total non-protein nitrogen which should not be exceeded in the daily ration of each animal species; — in the case of young ruminants, the incorporation rate

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						in the daily ration may not exceed 0.5%.
2.3. By-products from the production of amino acids by fermentation	2.3.1. Concentrated liquid by-products from the production of L-glutamic acid by fermentation with <i>Corynebacterium melassecola</i>	2.3.1.1. <i>Actinobacterium</i> salts and other nitrogenous compounds	Sucrose, molasses, starch products and their hydrolysates	Nitrogen expressed as protein: min. 48% Moisture: max. 28%	Ruminants from the beginning of rumination	Declarations to be made on the label or packaging of the product: — the name “by-products from the production of L-glutamic acid” in the case of product 2.3.1.; “by-products from the production of L-Lysine” in the case of product 2.3.2;
	2.3.2. Concentrated liquid by-products from the production of L-lysine monohydrochloride by fermentation with <i>Brevibacterium lactofermentum</i>	2.3.2.1. <i>Actinobacterium</i> salts and other nitrogenous compounds	Sucrose, molasses, starch products and their hydrolysates	Nitrogen expressed as protein: min. 45%	Ruminants from the beginning of rumination	

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						nitrogen, expressed as — protein; — ash; — moisture; — animal species or category Declarations to be made on the label or packaging of compound feeding stuffs: — percentage of the total protein provided by non-protein nitrogen; — indication, in the instructions for use, of the level of total non-protein nitrogen which should not be

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						exceeded in the dairy ration of each animal species or category
3. Amino acids and their salts					All animal species	
3.1 Methionine	3.1.1. DL-CH ₃ S(CH ₂) ₂ -methionine, technically pure	DL-CH ₃ S(CH ₂) ₂ -CH(NH ₂)-COOH		DL-methionine: min. 98%	} Ruminants from the beginning of rumination	} Declarations to be made on the label or packaging of the product:
	3.1.2. Dihydroxy-methyl- DL-methionine, technically pure	DL-CH ₃ S(CH ₂) ₂ -CH(NH-CH ₂ OH)-COO] ₂ Ca·2H ₂ O		DL-methionine: min. 67%		} —the name: “DL-methionine”, in the case of product 3.1.1.
	3.1.3. Methionine zinc, technically pure	DL-CH ₃ S(CH ₂) ₂ -CH(NH ₂)-COO] ₂ Zn		Formaldehyde: max. 14%		“Dihydrated calcium salt of N-hydroxymethyl-DL-methionine” in the case of product 3.1.2.,
				Calcium: min. 9%		“Zinc-methionine”, in the case of product 3.1.3;
				DL-methionine: min. 80%		
				Zn: max. 18.5%		

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						} —DL-methionine and moisture content;
						} —animal species or category in the case of products 3.1.2, and 3.1.3.
	<p>3.1.4. Concentrated liquid sodium DL-methionine technically pure</p>	$\text{C}_6\text{H}_{13}\text{S}(\text{CH}_2)_2\text{—CH}(\text{NH}_2)\text{—COO)Na}$		<p>DL-methionine: min. 40%</p> <p>Sodium: min 6.2%</p>	All animal species	<p>Declarations to be made on the label or packaging of the product:</p> <ul style="list-style-type: none"> — the name: “concentrated liquid sodium DL-methionine”; — DL-methionine content; — moisture content
	<p>3.1.5. DL-methionine, technically pure protected with copolymer vinylpyridine/styrene</p>	$\text{DL-CH}_3\text{S}(\text{CH}_2)_2\text{—CH}(\text{NH}_2)\text{—COOH}$		<p>DL-methionine: minimum 65% copolymer vinylpyridine/styrene: maximum 3%</p>	Dairy cows	<p>Declarations to be made on the label or packaging of the product:</p> <ul style="list-style-type: none"> — “Protected methionine with

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						copolymer vinylpyridine/styrene"; — DL-methionine and moisture contents; — animal species
3.2. Lysine	3.2.1. L-Lysine, technically pure	NH ₂ -(CH ₂) ₄ -CH(NH ₂)-COOH	—	L-Lysine: min. 98%	} All animal species	} Declarations to be made on the label or packaging of the product: } —the name "L-Lysine" in the case of product 3.2.1, "Concentrated liquid L-Lysine base" in the case of product 3.2.2, "L-Lysine monohydrochloride" in the case of product 3.2.3, "Concentrated liquid L-Lysine monohydrochloride" in the case of product 3.2.4, "L-Lysine sulphate produced by fermentation with <i>Corynebacterium glutamicum</i>
	3.2.2. Concentrated liquid L-Lysine (base)	NH ₂ -(CH ₂) ₄ -CH(NH ₂)-COOH	Saccharose, molasses, starch products and their hydrolysates	L-Lysine: min. 60%		
	3.2.3. L-Lysine-monohydrochloride, technically pure	NH ₂ -(CH ₂) ₄ -CH(NH ₂)-COOH.HCl	—	L-Lysine: min. 78%		
	3.2.4. Concentrated liquid L-Lysine-monohydrochloride	NH ₂ -(CH ₂) ₄ -CH(NH ₂)-COOH.HCl	Saccharose, molasses, starch products and their hydrolysates	L-Lysine: min. 22.4%		
	3.2.5. L-Lysine sulphate produced by fermentation with <i>Corynebacterium glutamicum</i>	[NH ₂ -(CH ₂) ₄ -CH(NH ₂)-COOH] ₂ -H ₂ SO ₄	Sugar syrup, molasses, cereals, starch products and their hydrolysates	L-Lysine: min. 40%		

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						3.2.4, “L-Lysine sulphate and its by-products from fermentation” in the case of product 3.2.5; L-Lysine and moisture content
	3.2.6. L-Lysine phosphate and its by-products produced by fermentation with <i>Brevibacterium lactofermentatum</i> NRRLB—11470	[NH ₂ (CH ₂) ₄ -CH(NH ₂)-COOH]-H ₃ PO ₄	Sucrose ammonia and fish solubles	L-Lysine: min. 35% Phosphorus: min. 4.3%	Poultry Pigs	Declarations to be made on the label or packaging of the product: — the name “L-Lysine phosphate and its by-products from fermentation” — L-Lysine and moisture content
	3.2.7. Mixture of: (a) L-Lysine monohydrochloride	NH ₂ - (CH ₂) ₄ - CH(NH ₂)- COOH-HCl monochloride, CH ₃ S(CH ₂) ₂ - CH(NH ₂)- COOH	—	L-Lysine +DL-methionine: minimum 50% (including DL-	Dairy cows	Declarations to be made on the label or packaging of the product:

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	pure and, (b) DL-methionine technically pure protected with copolymer vinyl-pyridine/styrene			methionine: minimum 15%) Copolymer vinyl-pyridine/styrene: maximum 3%		— the name “mixture of L-Lysine monohydrochloride and DL-methionine protected with copolymer vinyl-pyridine/styrene”; — L-Lysine, DL-methionine and moisture contents; — animal species
3.3. Threonin	3.3.1. L-Threonine, technically pure	CH ₃ -CH(OH)-CH(NH ₂)-COOH	—	L-Threonine: min. 98%	All animal species	Declarations to be made on the label or packaging of the product: — the name “L-Threonine” — L-Threonine and moisture content

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3.4. Tryptophan	3.4.1. L-Tryptophan, technically pure	(C ₈ H ₅ NH)-CH ₂ -CH(NH ₂)-COOH	—	L-Tryptophan: min. 98%	All animal species	Declarations to be made on the label or packaging of the product: — the name: “L-Tryptophan”; — L-Tryptophan and moisture content
	3.4.2. DL-Tryptophan, technically pure	DL-(C ₈ H ₅ NH)-CH ₂ -CH(NH ₂)-COOH	—	DL-Tryptophan: min. 98%	All animal species	Declarations to be made on the label or packaging of the product: — the name: “DL-Tryptophan”; — DL-Tryptophan and moisture content
4. Analogues of amino acids						
4.1. Analogues of methionine	4.1.1. Hydroxy analogue of methionine	CH ₃ (CH ₂) ₂ -CH(OH)-COOH	—	Total of acids: minimum 85%	} All animal species }	Declarations to be made on the label or packaging

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				Monomer acid:		of the product:
				minimum 65%		} —if appropriate, the name (column 2);
	4.1.2. Calcium salt of hydroxy analogue of methionine	Calcium (CH ₃ -S-CH ₂)-CH(OH)-COO] ₂ Ca	—	Monomer acid:		} — monomer acid and total acids contents in the case of product 4.1.1 and monomer acid content in the case of production 4.1.2;
				minimum 83%		} — moisture content;
				Calcium:		} —animal species
				minimum 12%		} Declarations to be made on the label or packaging of compound feeding stuffs:
						} —if appropriate,

(1) The contents laid down or to be declared in accordance with Columns 5 and 7 refer to the product as such.
(1) The contents laid down or to be declared in accordance with Columns 5 and 7 refer to the product as such.

Status: This is the original version (as it was originally made). This item of legislation is currently only available in its original format.

Column 1	Column 2	Column 3	Column 4	Column 5(1)	Column 6	Column 7(1)
<i>Name of product group</i>	<i>Permitted products</i>	<i>Designation of nutritive principle or identity of micro-organisms</i>	<i>Culture substrate (specifications if any)</i>	<i>Composition characteristics of product</i>	<i>Animal species</i>	<i>Name of product and specified particulars</i>
						the name (column 2);
						} — monomer acid and total acids contents in the case of product 4.1.1 and monomer acid content in the case of product 4.1.2;
						} — amount of the product contained in the feeding stuff

(1) The contents laid down or to be declared in accordance with Columns 5 and 7 refer to the product as such.
 (1) The contents laid down or to be declared in accordance with Columns 5 and 7 refer to the product as such.