

SCHEDULE 8

Regulation 14 and Schedule 4 Part I,  
paragraph 30

**Control of certain protein sources**

<i>Column 1</i>	<i>Column 2</i>	<i>Column 3</i>	<i>Column 4</i>	<i>Column 5(1)</i>	<i>Column 6</i>	<i>Column 7(1)</i>
<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>
1. Proteins obtained from the following groups of micro-organisms						
1.1. Bacteria						
1.1.1. Bacteria cultivated on methanol	1.1.1.1. Product of fermentation obtained by culture of <i>Methylophilus methylotrophus</i> on methanol	<i>Methylophilus methylotrophus</i> NCIB strain 10.515	Methanol	protein: min. 68% — Reflectance index: at least 50	Pigs, calves, poultry and fish	Declarations to be made on the label or packaging of the product: <ul style="list-style-type: none"> <li>— name of the product;</li> <li>— protein;</li> <li>— ash;</li> <li>— fat;</li> <li>— moisture content;</li> <li>— instructions for use;</li> <li>— “avoid inhalation”;</li> <li>— As from 1st April 2001: approval number;</li> </ul> Declarations

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to be made on the label or packaging of compound feeding stuffs: — amount of the product contained in the feeding stuff

1.1.2. Bacteria cultivated on natural gas	1.1.2.1. Protein product of natural fermentation from natural gas obtained by culture of:  <i>Methylococcus capsulatus (Bath), Alcaligenes acidovorans, Bacillus brevis et Bacillus firmus,</i> and the cells of which have been killed	<i>Methylococcus capsulatus (Bath)</i> NCIMB 11132 <i>Alcaligenes acidovorans</i> NCIMB strain 12387 <i>Bacillus brevis</i> NCIMB strain 13288 <i>Bacillus firmus</i> NCIMB strain 13280	Natural gas: approx 20% methane, 20% ethane, 20% propane, 0.5% isobutane, 0.5% n-butane, 1% other components), ammonia, mineral salts	protein: min. 65%	— Pigs — Calves — Salmon	Declarations to be made on the label or packaging of the product: — the name “Protein of fermentation from natural gas obtained by culture of <i>Methylococcus capsulatus (Bath), Alcaligenes acidovorans, Bacillus</i>
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“Protein product obtained by bacterial fermentation of natural gas”  
 — amount of the product contained in the feeding stuff  
 — As from 1st April 2001: approval number

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 lactis Kluyveromyces fragilis	Molasses, distillery residues, cereals and products containing starch, fruit juice, whey, lactic acid, hydrolyzed vegetable fibres	—	All animal species	—
1.2.2. Yeasts cultivated on substrates other than those given in 1.2.1						

1.3. Algae

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<i>1.4. Lower fungi</i>						
1.4.1. Products from production of antibiotics by fermentation	1.4.1. Mycelium 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	Declarations to be made on the label or packaging of the product: <ul style="list-style-type: none"> <li>— the name: “Mycelium silage from the production of penicillin”;</li> <li>— Nitrogen expressed as protein;</li> <li>— ash;</li> <li>— moisture;</li> <li>— animal species or category;</li> <li>— As from 1st April 2001: approval number; Declaration to be made on the label or packaging</li> </ul>

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

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						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 or category
2.2. Ammonium salts	2.1. Ammonium lactate, produced by fermentation with <i>Lactobacillus bulgaricus</i>	$\text{C}_6\text{H}_{11}\text{NO}_6$	$\text{C}_6\text{H}_{11}\text{NO}_6$	Nitrogen expressed as protein: min. 44%	Ruminants from the beginning of rumination	Declarations to be made on the label or packaging of the product: — the name: “Ammonium lactate from fermentation”; — nitrogen expressed

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as  
protein;  
— ash;  
— moisture;  
— animal species  
or  
category;

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

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						for use, of the level of total non-protein nitrogen which should not be exceeded in the daily ration of each animal species or category
	2.2.2. Ammonium acetate in aqueous solution	$\text{CH}_3\text{COONH}_4$		Ammonium acetate: min. 55%	Ruminants from the start of rumination	Declarations to be made on the label or packaging of the product: <ul style="list-style-type: none"> <li>— the words “Ammonium acetate”;</li> <li>— nitrogen content; moisture content;</li> <li>— animal species or category;</li> <li>— Declarations to be</li> </ul>

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						made on the label or packaging of compound feeding stuffs; — the words “Ammonium acetate”; — the 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

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	2.2.3. Ammonium sulphate in aqueous solution	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> —	—	Ammonium sulphate: min. 35%	Ruminants from the start of rumination	<p>not be exceeded in the daily ration for each animal species or category</p> <p>Declarations to be made on the label or packaging of the product:</p> <ul style="list-style-type: none"> <li>— the words “Ammonium sulphate”;</li> <li>— nitrogen and moisture contents;</li> <li>— animal species;</li> <li>— in the case of young ruminants, the incorporation rate in the daily ration may not exceed 0.5%;</li> </ul>

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						Declaration to be made on the label or packaging of compound feeding stuffs: <ul style="list-style-type: none"> <li>— the words “Ammonium sulphate”;</li> <li>— the amount of the product contained in the feeding stuff;</li> <li>— percentage of the total protein provided by non-protein nitrogen;</li> <li>— indication in the instructions for use of the level of total non-protein nitrogen</li> </ul>

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						which should not be exceeded in the daily ration of each animal species; — in the case of young ruminants, the incorporation rate in the daily ration may not exceed 0.5%
2.3. By-products from the production of amino acids by fermentation	Concentrated liquid by-products from the production of glutamic acid by fermentation with <i>Corynebacterium</i> and ammonium salts liquid by-products from the production	Ammonium salts and other nitrogenous compounds	Sucrose, molasses, starch products and their hydrolysates	Nitrogen expressed as protein: min. 48% Moisture max 28% Nitrogen expressed as protein: min. 45%	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

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	of L-lysine monohydrochloride by fermentation with <i>Brevibacterium lactofermentum</i>					the case of product 2.3.1.; “by-products from the production of L-lysine” in the case of product “2.3.2.”; nitrogen, expressed as — protein; — ash; — moisture; — animal species or category; As from 1st April 2001: approval number; Declarations to be made on the label or packaging of compound

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						feeding 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 exceeded in the daily ration of each animal species or category
3. Amino acids and their salts				All animal species		
3.1. Methionine	3.1. DL-methionine,	CH <sub>3</sub> S(CH <sub>2</sub> ) <sub>2</sub>		DL-methionine	Ruminants from the	Declarations to be made

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	technically pure	CH(NH <sub>2</sub> )-COOH		min. 98%	beginning of	on the label of the product:
	3.1.2. Dihydrated calcium salt of N-hydroxymethyl-DL-methionine, technically pure	[CH <sub>3</sub> S(CH <sub>2</sub> ) <sub>2</sub> CH(NH-CH <sub>2</sub> OH)-COO] <sub>2</sub> Ca.2H <sub>2</sub> O	—	DL-methionine: min. 67%	ruminant	— the name: “DL-methionine”, in the case of product 3.1.1.
	3.1.3. Methionine-zinc, technically pure	[CH <sub>3</sub> S(CH <sub>2</sub> ) <sub>2</sub> CH(NH <sub>2</sub> )-COO] <sub>2</sub> Zn		Formaldehyde: max. 14% Calcium: min 9% DL-methionine min. 80% Zn: max 18.5%		— “DL-methionine”, in the case of product 3.1.2., “Zinc-methionine”, in the case of product 3.1.3., — DL-methionine and moisture content; — animal species or category in the case of products

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						3.1.2., and 3.1.3.; — As from 1st April 2001: approval number;
	3.1.4. Concentrated liquid sodium DL-methionine technically pure	$\text{CH}_3\text{S}(\text{CH}_2)_2\text{CH}(\text{NH}_2)\text{COONa}$	—	DL-methionine: min. 40% Sodium: min. 6.2%	All animal species	Declarations to be made on the label or packaging of the product: — the name: “concentrated liquid sodium DL-methionine”; — DL-methionine content; — moisture content; — As from 1st April 2001: approval number;
	3.1.5. DL-methionine, technically pure protected with	$\text{DL-CH}_3\text{S}(\text{CH}_2)_2\text{CH}(\text{NH}_2)\text{COOH}$	—	DL-methionine: minimum 65% copolymer vinylpyridine/	Dairy cows	Declarations to be made on the label or packaging

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	copolymer vinylpyridine/styrene			styrene: maximum 3%		of the product: — “Protected methionine with copolymer vinyl-pyridine/styrene”; — DL-methionine and moisture contents; — animal species; — As from 1st April 2001: approval number;
3.2. Lysine	3.2.1. L- — Lysine, technically pure	Saccharose, molasses, starch	L- —	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.,
	3.2.2. Concentrated liquid L- Lysine (base)	and their hydrolysates	L- —			— “Concentrated liquid L-Lysine
	3.2.3. L- — Lysine-monohydrochloride, technically pure	Saccharose, molasses, starch	L- —			
	3.2.4. Concentrated liquid L- Lysine-monohydrochloride	and their hydrolysates Sugar syrup, molasses,	L- —			

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	3.2.5. L-Lysine sulphate produced by fermentation with <i>Corynebacterium glutamicum</i>	cereals starch products and their hydrolysates				base” in the case of product 3.2.2., — “L-Lysine mono-hydrochloride” in the case of product 3.2.3., — “Concentrated liquid L-Lysine monohydrochloride” in the case of product 3.2.4., — “L-Lysine sulphate and its by-products from fermentation” in the case of product 3.2.5.; — L-Lysine and
	NH <sub>2</sub> -(CH <sub>2</sub> ) <sub>4</sub> -CH(NH <sub>2</sub> )-COOH					
	NH <sub>2</sub> -(CH <sub>2</sub> ) <sub>4</sub> -CH(NH <sub>2</sub> )-COOH.HCl					
	NH <sub>2</sub> -(CH <sub>2</sub> ) <sub>4</sub> -CH(NH <sub>2</sub> )-COOH.HCl					
	[NH <sub>2</sub> -(CH <sub>2</sub> ) <sub>4</sub> -CH(NH <sub>2</sub> )-COOH] <sub>2</sub> -H <sub>2</sub> SO <sub>4</sub>					

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						moisture content; — As from 1st April 2001: approval number;
	3.2.6. L- Lysine phosphate and its by-products produced by fermentation with <i>Brevibacterium lactofermentatum</i> NRRLB-11470 [NH <sub>2</sub> (CH <sub>2</sub> ) <sub>4</sub> -CH(NH <sub>2</sub> )-COOH]-H <sub>3</sub> PO <sub>4</sub>	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; — As from 1st April 2001; approval number;	
	3.2.7. Mixtures of: (a) L- Lysine-		L- Lysine + DL- methionine:	Dairy cows	Declarations to be made on the label or	

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<i>Column 1</i>	<i>Column 2</i>	<i>Column 3</i>	<i>Column 4</i>	<i>Column 5(1)</i>	<i>Column 6</i>	<i>Column 7(1)</i>
<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>
	(b) DL-methionine technically pure protected with copolymer vinyl-pyridine/styrene NH <sub>2</sub> -(CH <sub>2</sub> ) <sub>4</sub> -CH(NH <sub>2</sub> )-COOH-HCl CH <sub>3</sub> S(CH <sub>2</sub> ) <sub>2</sub> -CH(NH <sub>2</sub> )-COOH	mono-hydrochloride, technically pure, and	minimum 50% (including DL-methionine: minimum 15%) Copolymer vinyl pyridine/styrene: maximum 3%		packaging of the product: — 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; — As from 1st April 2001: approval number;	
3.3. Threonine	3.3.1. L-Threonine, technically pure	CH <sub>3</sub> CH(OH)-CH(NH <sub>2</sub> )-COOH		L-Threonine: min. 98%	All animal species	Declarations to be made on the label or packaging of the product:

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Name of product group	Permitted products	Designation of nutritive principle or identity of micro-organisms	Culture substrate (specifications if any)	Composition characteristics of product	Animal species	Name of product and specified particulars
						<ul style="list-style-type: none"> <li>— the name “L-Threonine”;</li> <li>— L-Threonine and moisture content;</li> <li>— As from 1st April 2001: approval number;</li> </ul>
3.4. Tryptophan	3.4.1. L-Tryptophan, technically pure	(C <sub>8</sub> H <sub>5</sub> NH)-CH <sub>2</sub> -CH(NH <sub>2</sub> )-COOH	—	L-Tryptophan: min. 98%	All animal species	Declarations to be made on the label or packaging of the product: <ul style="list-style-type: none"> <li>— the name: “L-Tryptophan”;</li> <li>— L-Tryptophan and moisture content;</li> <li>— As from 1st April 2001: approval number;</li> </ul>
	3.4.2. DL-Tryptophan,	DL-(C <sub>8</sub> H <sub>5</sub> NH)-CH <sub>2</sub> -	—	DL-Tryptophan min. 98%	All animal species	Declarations to be made on the

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Name of product group	Permitted products	Designation of nutritive principle or identity of micro-organisms	Culture substrate (specifications if any)	Composition characteristics of product	Animal species	Name of product and specified particulars
	technically pure	CH(NH <sub>2</sub> )-COOH				label or packaging of the product: — the name “DL-Tryptophan”; — DL Tryptophan and moisture content; — As from 1st April 2001: approval number;

4. Analogues of amino acids

4.1. Analogues of methionine	4.1.1. Hydroxy analogue of methionine	Total of acids:	All animal species	Declarations to be made on the label or packaging of the product:
	—	minimum 85%		— if appropriate, the name (column 2);
	4.1.2. Calcium salt of hydroxy analogue of methionine	minimum 65%		— monomer acid and total acids contents
	CH <sub>3</sub> S(CH <sub>2</sub> ) <sub>2</sub> -CH(OH)-COOH	minimum 83%		
	[CH <sub>3</sub> -S-(CH <sub>2</sub> )-CH(OH)-COO] <sub>2</sub> Ca	Calcium: minimum 12%		

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<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>in the case of product 4.1.1. and monomer acid content in the case of product 4.1.2.;</p> <p>— moisture content;</p> <p>— animal species;</p> <p>— As from 1st April 2001: approval number;</p> <p>Declarations to be made on the label or packaging of compound feeding stuffs:</p> <p>— if appropriate, the name (column 2);</p> <p>— monomer acid</p>

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<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>
						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.

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