

**COMMISSION REGULATION (EC) No 1436/98**  
**of 3 July 1998**  
**authorising certain additives in feedingstuffs**

(Text with EEA relevance)

THE COMMISSION OF THE EUROPEAN COMMUNITIES,  
Having regard to the Treaty establishing the European  
Community,

Having regard to Council Directive 93/113/EC of 14  
December 1993 concerning the use and marketing of  
enzymes, micro-organisms and their preparations in  
animal nutrition (<sup>(1)</sup>), as last amended by Council Directive  
97/40/EC (<sup>(2)</sup>), and in particular Article 5 thereof,

Whereas Council Directive 70/524/EEC of 23 November  
1970 concerning additives in feedingstuffs (<sup>(3)</sup>), as last  
amended by Commission Directive 98/19/EC (<sup>(4)</sup>), lays  
down that new additives or new additive uses may be  
authorised in line with advances in scientific and technical  
knowledge;

Whereas Directive 93/113/EC, by derogation from Directive  
70/524/EEC, authorises Member States to permit  
provisionally the use and marketing of enzymes, micro-organisms  
and their preparations in animal nutrition;

Whereas examination of the dossiers, submitted by the  
Member States in accordance with Article 3 of Directive  
93/113/EC, indicates that a certain number of substances  
in the groups of enzymes and micro-organisms can be  
provisionally authorised;

Whereas the Scientific Committee for animal nutrition  
has delivered a favourable opinion with regard to the  
harmlessness of these substances;

Whereas the measures provided for in this Regulation are  
in accordance with the opinion of the Standing  
Committee on Feedingstuffs,

HAS ADOPTED THIS REGULATION:

*Article 1*

The substances belonging to the group 'enzymes' and  
listed in Annex I to this Regulation may be authorised as  
additives in animal nutrition under the conditions laid  
down in that Annex.

*Article 2*

The substances belonging to the group 'micro-organisms'  
and listed in Annex II to this Regulation may be authorised as  
additives in animal nutrition under the conditions laid down in that Annex.

*Article 3*

This Regulation shall enter into force on 1 July 1999.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels, 3 July 1998.

*For the Commission*

Franz FISCHLER

*Member of the Commission*

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(<sup>1</sup>) OJ L 334, 31. 12. 1993, p. 17.

(<sup>2</sup>) OJ L 180, 9. 7. 1997, p. 21.

(<sup>3</sup>) OJ L 270, 14. 12. 1970, p. 1.

(<sup>4</sup>) OJ L 96, 28. 3. 1998, p. 39.

## ANNEX I

| Number | Additive                | Chemical formula, description   | Species or category of animal | Maximum age | Minimum content | Maximum content | Other provisions   |  | Period of authorisation |
|--------|-------------------------|---|-------------------------------|-------------|-----------------|-----------------|--|--|-------------------------|
|        |                         |   |                               |             |                 |                 | Units of activity per kilogram of complete feedingstuff  |  |                         |
| 2      | 3-Phytase<br>EC 3.1.3.8 | Preparation of 3-phytase produced by <i>Aspergillus oryzae</i> (DSM 10 289) having a minimum activity of:<br>Coated form: 2 500 FYT (¹)/g<br>Liquid form: 5 000 FYT/g | Piglets                       | Four months | 250 FYT         | 1 000 FYT       | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br>2. Recommended dose per kilogram of complete feedingstuff:<br>500 FYT.<br>3. For use in compound feed rich in phytates, e.g. containing more than 40 % cereals (corn, barley, oats, wheat, rye, triticale), oilseeds and pulses. |  | 30. 9. 1999             |
|        |                         |   | Pigs for fattening            | —           | 400 FYT         | 1 000 FYT       | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br>2. Recommended dose per kilogram of complete feedingstuff:<br>500 FYT.<br>3. For use in compound feed rich in phytates, e.g. containing more than 40 % cereals (corn, barley, oats, wheat, rye, triticale), oilseeds and pulses. |  | 30. 9. 1999             |
|        |                         |   | Chickens for fattening        | —           | 200 FYT         | 1 000 FYT       | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br>2. Recommended dose per kilogram of complete feedingstuff:<br>500 FYT.<br>3. For use in compound feed rich in phytates, e.g. containing more than 40 % cereals (corn, barley, oats, wheat, rye, triticale), oilseeds and pulses. |  | 30. 9. 1999             |

| Number | Additive                              | Chemical formula, description   | Species or category of animal | Maximum age | Minimum content<br>Units of activity per kilogram of complete feedingstuff | Maximum content | Other provisions  | Period of authorisation |
|--------|---------------------------------------|---|-------------------------------|-------------|--|-----------------|---|-------------------------|
|        |                                       |   |                               |             |  |                 |   |                         |
| 3      | Alpha-galactosidase EC 3.2.1.22.      | Preparation of alpha-galactosidase produced by <i>Aspergillus oryzae</i> (DSM 10 286) having a minimum activity of:<br>Liquid form: 1 000 GALU (/)g                                 | Chickens for fattening        | —           | 300 GALU   | 1 000 GALU      | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br>2. Recommended dose per kilogram of complete feedingstuff:<br>450 GALU.<br><br>3. For use in compound feed rich in oligosaccharides, e.g. containing more than 25 % soy meal, cotton seed cakes, peas.            | 30. 9. 1999             |
| 4      | Endo-1,3(4)-beta-glucanase EC 3.2.1.6 | Preparation of endo-1,3(4)-beta-glucanase produced by <i>Aspergillus aculeatus</i> (CBS 589.94) having a minimum activity of:<br>Coated form: 50 FBG (/)g<br>Liquid form: 120 FBG/g | Piglets                       | Four months | 25 FBG   | 40 FBG          | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br>2. Recommended dose per kilogram of complete feedingstuff:<br>25 FBG.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 50 % corn or barley. | 30. 9. 1999             |
| 5      | Endo-1,4-beta-xylanase EC 3.2.1.8     | Preparation of endo-1,4-beta-xylanase produced by <i>Aspergillus oryzae</i> (DSM 10 287) having a minimum activity of:<br>Coated form: 1 000 FXU (/)g<br>Liquid form: 650 FXU/ml    | Chickens for fattening        | —           | 80 FXU   | 200 FXU         | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br>2. Recommended dose per kilogram of complete feedingstuff:<br>150 FXU.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 50 % wheat.        | 30. 9. 1999             |

| Number | Additive  | Chemical formula,<br>description  | Species or<br>category of<br>animal | Maximum<br>age | Minimum<br>content | Maximum<br>content  | Units of activity per kilogram<br>of complete feedingstuff  | Other provisions  | Period of<br>authorisation |
|--------|---|---|-------------------------------------|----------------|--------------------|---------------------|---|---|----------------------------|
|        |   |   |                                     |                |                    |                     |   |   |                            |
|        |   |   | Turkeys for<br>fattening            | —              | 225 FXU            | 600 FXU             | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>225-600 FXU.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 50 % wheat.  | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>200 FXU.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 50 % wheat.  | 30.9.1999                  |
|        |   |   | Piglets                             | Four months    | 200 FXU            | —                   | —   | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>200 FXU.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 50 % wheat.  | 30.9.1999                  |
| 6      | Endo-1,4-beta-xylanase<br>EC 3.2.1.8<br><br>Endo-1,4-beta-glucanase<br>EC 3.2.1.4 | Preparation of endo-1,4-beta-xylanase and endo-1,4-beta-glucanase produced by <i>Humicola insolens</i> (DSM 10 442) having a minimum activity of:<br><br>Coated form:<br>800 FXU/(%)g<br>75 FBG/(%)g<br><br>Microgranulated form:<br>800 FXU/g<br>75 FBG/g<br><br>Liquid form:<br>550 FXU/ml<br>50 FBG/ml | Chickens for<br>fattening           | —              | 200 FXU<br>19 FBG  | 1 000 FXU<br>94 FBG | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>400 FXU<br>38 FBG.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 30 % barley and/or oats, wheat. | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>400 FXU<br>38 FBG.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 30 % barley and/or oats, wheat. | 30.9.1999                  |

| Number | Additive  | Chemical formula,<br>description  | Species or<br>category of<br>animal | Maximum<br>age | Minimum<br>content   | Maximum<br>content      | Other provisions   | Period of<br>authorisation |
|--------|---|---|-------------------------------------|----------------|--|-------------------------|--|----------------------------|
|        |   |   |                                     |                | Units of activity per kilogram<br>of complete feedingstuff |                         |  |                            |
| 7      | Endo-1,4-beta-xylanase<br>EC 3.2.1.8<br>Endo-1,4-beta-glucanase<br>EC 3.2.1.4 | Preparation of endo-1,4-beta-xylanase and endo-1,4-beta-glucanase produced by <i>Aspergillus niger</i> (CBS 600.94) having a minimum activity of:<br><br>Solid and liquid forms:<br>12 000 FXU (%)/g<br>5 000 BGU (%)/g | Piglets                             | Four months    | 240 FXU<br>22 FBG  | 1 000 FXU<br>94 FBG     | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>400 FXU<br>38 FBG.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 30 % barley and/or oats, wheat.              | 30. 9. 1999                |
| 8      | Endo-1,4-beta-glucanase<br>EC 3.2.1.4<br>Endo-1,4-beta-xylanase<br>EC 3.2.1.8 | Preparation of endo-1,4-beta-glucanase and endo-1,4-beta-xylanase produced by <i>Aspergillus niger</i> (CBS 600.94) having a minimum activity of:<br><br>Solid and liquid forms:<br>10 000 BGU (%)/g<br>4 000 FXU (%)/g | Chickens for fattening              | —              | 3 600 FXU<br>1 500 BGU                                     | 12 000 FXU<br>5 000 BGU | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>3 600-6 000 FXU<br>1 500-2 500 BGU.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 40 % wheat, rye, triticale. | 30. 9. 1999                |
|        |   |   |                                     |                | 3 000 BGU<br>1 200 FXU                                     | 10 000 BGU<br>4 000 FXU | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>3 000-10 000 BGU<br>1 200-4 000 FXU.   | 30. 9. 1999                |
|        |   |   |                                     |                |  |                         | 3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans and arabinoxylans), e.g. containing more than 30 % barley.   |                            |

| Number | Additive                             | Chemical formula, description   | Species or category of animal | Maximum age | Minimum content   | Maximum content | Other provisions   | Period of authorisation |
|--------|--------------------------------------|---|-------------------------------|-------------|---|-----------------|--|-------------------------|
|        |                                      |   |                               |             | Units of activity per kilogram of complete feedingstuff |                 |  |                         |
| 9      | Endo-1,4-beta-xylanase<br>EC 3.2.1.8 | Preparation of endo-1,4-beta-xylanase produced by <i>Afpergillus niger</i> (CBS 270.95) having a minimum activity of:<br>Solid form: 28 000 EXU <sup>(1)</sup> /g<br>Liquid form: 14 000 EXU/ml   | Chickens for fattening        | —           | 1 400 EXU   | —               | <p>1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.</p> <p>2. Recommended dose per kilogram of complete feedingstuff:<br/>1 400 EXU.</p> <p>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 50 % wheat.</p>                                     | 30. 9. 1999             |
| 10     | Alpha-amylase<br>EC 3.2.1.1          | Preparation of alpha-amylase produced by <i>Baillius amyloboliquefaciens</i> (CBS 360.94) having a minimum activity of:<br>Solid form: 45 000 RAU <sup>(2)</sup> /g<br>Liquid form: 20 000 RAU/ml | Piglets                       | Four months | 1 800 RAU   | —               | <p>1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.</p> <p>2. Recommended dose per kilogram of complete feedingstuff:<br/>1 800 RAU.</p> <p>3. For use, exclusively, in compound feed destined for liquid feeding systems, and containing starch-rich feed materials (e.g. containing more than 35 % wheat).</p> | 30. 9. 1999             |
|        |                                      | Pigs for fattening  | —                             | —           | 1 800 RAU   | —               | <p>1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.</p> <p>2. Recommended dose per kilogram of complete feedingstuff:<br/>1 800 RAU.</p> <p>3. For use, exclusively, in compound feed destined for liquid feeding systems, and containing starch-rich feed materials (e.g. containing more than 35 % wheat).</p> | 30. 9. 1999             |

| Number | Additive  | Chemical formula,<br>description   | Species or<br>category of<br>animal | Maximum<br>age | Units of activity per kilogram<br>of complete feedingstuff  | Minimum<br>content | Maximum<br>content | Other provisions   |             | Period of<br>authorisation |
|--------|---|--|-------------------------------------|----------------|---|--------------------|--------------------|--|-------------|----------------------------|
|        |   |  |                                     |                |   |                    |                    |  |             |                            |
|        |   |  | Sows                                | —              | 1 800 RAU   | —                  | —                  | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>1 800 RAU.<br><br>3. For use, exclusively, in compound feed destined for liquid feeding systems, and containing starch-rich feed materials (e.g. containing more than 35 % wheat).   | 30. 9. 1999 |                            |
| 11     | Endo-1,4-beta-glucanase<br>EC 3.2.1.4<br>Endo-1,3(4)-beta-glucanase<br>EC 3.2.1.6<br>Endo-1,4-beta-xylanase<br>EC 3.2.1.8 | Preparation of endo-1,4-beta-glucanase and endo-1,3(4)-beta-glucanase produced by <i>Trichoderma longibrachiatum</i> (ATCC 74 252) having a minimum activity of:<br><br>Endo-1,4-beta-glucanase:<br>8 000 U/ml ( <sup>13</sup> )<br><br>Endo-1,3(4)-beta-glucanase:<br>18 000 U/ml ( <sup>14</sup> )<br><br>Endo-1,4-beta-xylanase:<br>26 000 U/ml ( <sup>15</sup> ) | Chickens for fattening              | —              | Endo-1,4-beta-glucanase:<br>400 U<br>Endo-1,3(4)-beta-glucanase:<br>900 U<br>Endo-1,4-beta-xylanase:<br>1 300 U | —                  | —                  | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>endo-1,4-beta-glucanase:<br>400-1 600 U<br>endo-1,3(4)-beta-glucanase:<br>900-3 600 U<br>endo-1,4-beta-xylanase:<br>1 300-5 200 U.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 30 % wheat or barley and 10 % rye. | 30. 9. 1999 |                            |

| Number | Additive  | Chemical formula, description  | Species or category of animal | Maximum age | Units of activity per kilogram of complete feedingstuff   | Minimum content | Maximum content | Other provisions   |   | Period of authorisation |
|--------|---|--|-------------------------------|-------------|---|-----------------|-----------------|--|---|-------------------------|
|        |   |  |                               |             |   |                 |                 | Units of activity per kilogram of complete feedingstuff  | Other provisions  |                         |
| 12     | Endo-1,4-beta-glucanase<br>EC 3.2.1.4<br><br>Endo-1,3(4)-beta-glucanase<br>EC 3.2.1.6 | Preparation of endo-1,4-beta-glucanase, endo-1,3(4)-beta-glucanase and endo-1,4-beta-xylanase produced by <i>Trichoderma viride</i> (FERM BP-4447) having a minimum activity of:<br><br>Endo-1,4-beta-glucanase: 8 000 U/g ( <sup>19</sup> )<br>Endo-1,3(4)-beta-glucanase: 18 000 U/g ( <sup>17</sup> )<br>Endo-1,4-beta-xylanase: 26 000 U/g ( <sup>18</sup> ) | Chickens for fattening        | —           | Endo-1,4-beta-glucanase:<br>200 U<br><br>Endo-1,3(4)-beta-glucanase:<br>450 U<br><br>Endo-1,4-beta-xylanase:<br>650 U | —               | —               | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br><br>endo-1,4-beta-glucanase:<br>800-1 200 U/g<br>endo-1,3(4)-beta-glucanase:<br>1 800-2 700 U/g<br>endo-1,4-beta-xylanase:<br>2 600-3 900 U/g.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 20 % wheat and 20 % barley, and/or 25 % rye. | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br><br>endo-1,4-beta-glucanase:<br>640-1 280 U<br>endo-1,4-beta-xylanase:<br>1 440-2 880 U<br>endo-1,4-beta-xylanase:<br>2 080-4 160 U.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 20 % wheat and 20 % barley and/or 25 % rye. | 30.9.1999               |
|        |   |  | Laying hens                   | —           | Endo-1,4-beta-glucanase:<br>640 U<br><br>Endo-1,3(4)-beta-glucanase:<br>1 440 U<br>Endo-1,4-beta-xylanase:<br>2 080 U | —               | —               | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br><br>endo-1,4-beta-glucanase:<br>640-1 280 U<br>endo-1,4-beta-xylanase:<br>1 440-2 880 U<br>endo-1,4-beta-xylanase:<br>2 080-4 160 U.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 20 % wheat and 20 % barley and/or 25 % rye.            | 30.9.1999   |                         |

| Number | Additive   | Chemical formula,<br>description   | Species or<br>category of<br>animal | Maximum<br>age | Units of activity per kilogram<br>of complete feedingstuff  | Minimum<br>content | Maximum<br>content | Other provisions  |   | Period of<br>authorisation |
|--------|--|--|-------------------------------------|----------------|---|--------------------|--------------------|---|---|----------------------------|
|        |  |  |                                     |                |   |                    |                    |   |   |                            |
|        |  |  | Turkeys for<br>fattening            | —              | Endo-1,4-beta-<br>glucanase:<br>1 200 U<br>Endo-1,3(4)-<br>beta-glucanase:<br>2 700 U<br>Endo-1,4-beta-<br>xylanase:<br>3 900 U   | —                  | —                  | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br><br>endo-1,4-beta-glucanase:<br>1 200 U<br>endo-1,3(4)-beta-glucanase:<br>2 700 U<br><br>endo-1,4-beta-xylanase:<br>3 900 U.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 20 % wheat and 20 % barley and/or 20 % rye. | 30. 9. 1999   |                            |
| 13     | Endo-1,3(4)-beta-<br>glucanase<br>EC 3.2.1.6<br>Endo-1,4-beta-xylanase<br>EC 3.2.1.8 | Preparation of endo-1,3(4)-beta-<br>glucanase and endo-1,4-beta-xylanase<br>produced by <i>Trichoderma longibrachiatum</i> (CBS 357.94) having a minimum<br>activity of: | Chickens for<br>fattening           | —              | Powder form:<br>8 000 BGU/g <sup>(1)</sup><br>11 000 EXU/g <sup>(2)</sup><br><br>Granulated form:<br>6 000 BGU/g<br>8 250 EXU/g<br><br>Liquid form:<br>2 000 BGU/ml<br>2 750 EXU/ml | —                  | 100 BGU<br>130 EXU | —   | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>100 BGU<br>130 EXU.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans and arabinoxylans), e.g. containing more than 30 % wheat and 30 % barley, or 20 % rye. | 30. 9. 1999                |

| Number | Additive                                 | Chemical formula, description  | Species or category of animal | Maximum age | Minimum content   | Maximum content | Other provisions  | Period of authorisation |
|--------|--|--|-------------------------------|-------------|---|-----------------|---|-------------------------|
|        |  |  |                               |             | Units of activity per kilogram of complete feedingstuff |                 |   |                         |
| 14     | Endo-1,4-beta-xylanase<br>EC 3.2.1.8     | Preparation of endo-1,4-beta-xylanase produced by <i>Afypgillus niger</i> (CBS 520.94) having a minimum activity of:<br><br>Solid form:<br>600 U/g <sup>(21)</sup><br>Liquid form:<br>300 U/ml                   | Chickens for fattening        | —           | 300 U   | —               | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram complete feedingstuff:<br>300-600 U.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 50 % wheat.       | 30. 9. 1999             |
| 15     | Endo-1,3(4)-beta-glucanase<br>EC 3.2.1.6 | Preparation of endo-1,3(4)-beta-glucanase produced by <i>Trichoderma viride</i> (CBS 517.94) having a minimum activity of:<br><br>Solid form:<br>650 Ug <sup>(22)</sup><br>Liquid form:<br>325 U/ml              | Chickens for fattening        | —           | 325 U   | —               | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>325-650 U.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 50 % barley.    | 30. 9. 1999             |
| 16     | Endo-1,4-beta-glucanase<br>EC 3.2.1.4    | Preparation of endo-1,4-beta-glucanase produced by <i>Trichoderma longibrachiatum</i> (IMI SD 142) having a minimum activity of:<br><br>Solid form:<br>1 000 CU/g <sup>(23)</sup><br>Liquid form:<br>2 000 CU/ml | Chickens for fattening        | —           | 250 CU  | —               | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>500-1 000 CU.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 40 % barley. | 30. 9. 1999             |

| Number | Additive | Chemical formula,<br>description | Species or<br>category of<br>animal | Maximum<br>age | Minimum<br>content | Maximum<br>content | Other provisions  |   | Period of<br>authorisation |
|--------|----------|----------------------------------|-------------------------------------|----------------|--------------------|--------------------|---|---|----------------------------|
|        |          |                                  |                                     |                |                    |                    | Units of activity per kilogram<br>of complete feedingstuff  |   |                            |
|        |          |                                  | Laying hens                         | —              | 250 CU             | —                  | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>500-1 000 CU.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 40 % barley. | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>500-1 000 CU.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 40 % barley. | 30. 9. 1999                |
|        |          |                                  | Piglets                             | Four months    | 250 CU             | —                  | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>500-1 000 CU.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 40 % barley. | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>500-1 000 CU.<br><br>3. For use in compound feed rich in non starch polysaccharides (mainly beta-glucans), e.g. containing more than 40 % barley. | 30. 9. 1999                |
|        |          |                                  | Pigs for fattening                  | —              | 250 CU             | —                  | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>500-1 000 CU.<br><br>3. For use in compound feed rich in non starch polysaccharides (mainly beta-glucans), e.g. containing more than 40 % barley. | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>500-1 000 CU.<br><br>3. For use in compound feed rich in non starch polysaccharides (mainly beta-glucans), e.g. containing more than 40 % barley. | 30. 9. 1999                |

| Number | Additive                             | Chemical formula,<br>description  | Species or<br>category of<br>animal | Maximum<br>age | Minimum<br>content | Maximum<br>content | Other provisions  |  | Period of<br>authorisation |
|--------|--------------------------------------|---|-------------------------------------|----------------|--------------------|--------------------|---|--|----------------------------|
|        |                                      |   |                                     |                |                    |                    | Units of activity per kilogram<br>of complete feedingstuff  |  |                            |
| 17     | Endo-1,4-beta-xylanase<br>EC 3.2.1.8 | Preparation of endo-1,4-beta-xylanase produced by <i>Trichoderma longibrachiatum</i> (IMI SD 135) having a minimum activity of:<br><br>Solid form:<br>3 000 EPU/g ( <sup>24</sup> )<br>Liquid form:<br>6 000 EPU/ml | Chickens for fattening              | —              | 750 EPU            | —                  | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting:<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>1 500-3 000 EPU.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 40 % wheat or maize. |  | 30. 9. 1999                |
|        |                                      |   | Laying hens                         | —              | 750 EPU            | —                  | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting:<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>1 500-3 000 EPU.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 40 % wheat or maize. |  | 30. 9. 1999                |
|        |                                      |   | Piglets                             | Four months    | 750 EPU            | —                  | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting:<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>1 500-3 000 EPU.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 40 % wheat or maize. |  | 30. 9. 1999                |

| Number | Additive                                 | Chemical formula,<br>description  | Species or<br>category of<br>animal | Maximum<br>age | Minimum<br>content | Maximum<br>content | Other provisions  |  | Period of<br>authorisation |
|--------|--|---|-------------------------------------|----------------|--------------------|--------------------|---|--|----------------------------|
|        |  |   |                                     |                |                    |                    | Units of activity per kilogram<br>of complete feedingstuff  |  |                            |
|        |  | Pigs for<br>fattening   |                                     | —              | 750 EPU            | —                  | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br>2. Recommended dose per kilogram of complete feedingstuff:<br>1 500–3 000 EPU.<br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 40 % wheat or maize. |  | 30. 9. 1999                |
| 18     | Endo-1,3(4)-beta-glucanase<br>EC 3.2.1.6 | Preparation of endo-1,3(4)-beta-glucanase produced by <i>Aspergillus niger</i> (MUCL 39199) having a minimum activity of:<br>Solid form:<br>2 000 AGL/g <sup>(25)</sup><br>Liquid form:<br>500 AGL/ml | Chickens for<br>fattening           | —              | 100 AGL            | —                  | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br>2. Recommended dose per kilogram of complete feedingstuff:<br>100 AGL<br>3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 40 % barley and 20 % wheat.    |  | 30. 9. 1999                |
| 19     | Endo-1,3(4)-beta-glucanase<br>EC 3.2.1.6 | Preparation of endo-1,3(4)-beta-glucanase produced by <i>Aspergillus niger</i> (MUCL 39199) having a minimum activity of:<br>Solid form:<br>1 500 AGL/g <sup>(26)</sup><br>Liquid form:<br>200 AGL/g  | Chickens<br>for fattening           | —              | 25 AGL             | —                  | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br>2. Recommended dose per kilogram of complete feedingstuff:<br>25–100 AGL<br>3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 50 % barley.                |  | 30. 9. 1999                |

| Number | Additive                                 | Chemical formula, description   | Species or category of animal | Maximum age | Minimum content | Maximum content | Other provisions   |  | Period of authorisation |
|--------|--|---|-------------------------------|-------------|-----------------|-----------------|--|--|-------------------------|
|        |  |   |                               |             |                 |                 | Units of activity per kilogram of complete feedingstuff  |  |                         |
| 20     | Endo-1,4-beta-xylanase<br>EC 3.2.1.8     | Preparation of endo-1,4-beta-xylanase produced by <i>Trichoderma longibrachiatum</i> (MUCL 39203) having a minimum activity of:<br><br>Solid form:<br>2 000 AXC/g <sup>(27)</sup><br>Liquid form:<br>500 AXC/ml             | Chickens for fattening        | —           | 100 AXC         | —               | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>100 AXC<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 40 % wheat or rye. |  | 30.9.1999               |
| 21     | Endo-1,4-beta-xylanase<br>EC 3.2.1.8     | Preparation of endo-1,4-beta-xylanase produced by <i>Trichoderma longibrachiatum</i> (MUCL 39203) having a minimum activity of:<br><br>Solid form:<br>1 500 AXC/g <sup>(28)</sup><br>Liquid form:<br>200 AXC/g              | Chickens for fattening        | —           | 25 AXC          | —               | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>25-100 AXC.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 50 % wheat.    |  | 30.9.1999               |
| 22     | Endo-1,3(4)-beta-glucanase<br>EC 3.2.1.6 | Preparation of endo-1,3(4)-beta-glucanase produced by <i>Trichoderma longibrachiatum</i> (CNCM MA 6-10 W) having a minimum activity of:<br><br>Solid form:<br>70 000 BGN/g <sup>(29)</sup><br>Liquid form:<br>14 000 BGN/ml | Chickens for fattening        | —           | 1 050 BGN       | —               | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>2 800 BGN.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans), e.g. containing more than 50 % barley.     |  | 30.9.1999               |

| Number | Additive   | Chemical formula, description  | Species or category of animal | Maximum age | Minimum content  | Maximum content        | Other provisions   | Period of authorisation |
|--------|--|--|-------------------------------|-------------|--|------------------------|--|-------------------------|
|        |  |  |                               |             | Units of activity per kilogram of complete feedingstuff                  |                        |  |                         |
| 23     | Endo-1,4-beta-xylanase<br>EC 3.2.1.8   | Preparation of endo-1,4-beta-xylanase produced by <i>Trichoderma longibrachiatum</i> (CNCM MA 6-10 W) having a minimum activity of:<br><br>Solid form:<br>70 000 IFP/g <sup>(1)</sup><br>Liquid form:<br>7 000 IFP/ml  | Chickens for fattening        | —           | 1 050 IFP  | —                      | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>1 400 IFP.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans), e.g. containing more than 56 % wheat.   | 30. 9. 1999             |
| 24     | Endo-1,4-beta-xylanase<br>EC 3.2.1.8<br>Endo-1,3(4)-beta-glucanase<br>EC 3.2.1.6 | Preparation of endo-1,4-beta-xylanase and endo-1,3(4)-beta-glucanase produced by <i>Aspergillus niger</i> (CNCM I-1517) having a minimum activity of:<br><br>28 000 QXU/g <sup>(1)</sup><br>140 000 QGU/g <sup>(32)</sup>  | Chickens for fattening        | —           | 420 QXU<br>2 100 QGU   | 1 120 QXU<br>5 600 QGU | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>560 QXU<br>2 800 QGU.  | 30. 9. 1999             |
| 25     | Endo-1,3(4)-beta-glucanase<br>EC 3.2.1.6<br>Endo-1,4-beta-xylanase<br>EC 3.2.1.8 | Preparation of endo-1,3(4)-beta-glucanase and endo-1,4-beta-xylanase produced by <i>Aspergillus niger</i> (NRRL 25541) having a minimum activity of:<br><br>Endo-1,3(4)-beta-glucanase:<br>1 100 U/g <sup>(33)</sup><br>Endo-1,4-beta-xylanase:<br>1 600 U/g <sup>(34)</sup> | Chickens for fattening        | —           | Endo-1,3(4)-beta-glucanase:<br>138 U<br>Endo-1,4-beta-xylanase:<br>200 U | —                      | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuff:<br>endo-1,3(4)-beta-glucanase: 138 U<br>endo-1,4-beta-xylanase: 200 U<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly beta-glucans and arabinoxylans), e.g. containing more than 50 % barley or 30 % wheat and 30 % corn. | 30. 9. 1999             |

| Number | Additive | Chemical formula, description | Species or category of animal | Maximum age | Minimum content<br>Units of activity per kilogram of complete feedingstuff | Maximum content | Other provisions   | Period of authorisation |
|--------|----------|-------------------------------|-------------------------------|-------------|--|-----------------|--|-------------------------|
|        |          | Laying hens                   |                               | —           | Endo-1,3(4)-beta-glucanase:<br>138 U<br>Endo-1,4-beta-xylanase:<br>200 U   | —               | 1. In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>2. Recommended dose per kilogram of complete feedingstuffs:<br>endo-1,3(4)-beta-glucanase: 138 U<br>endo-1,4-beta-xylanase: 200 U.<br><br>3. For use in compound feed rich in non-starch polysaccharides (mainly arabinoxylans and beta-glucans), e.g. containing more than 50 % barley or 30 % wheat and 30 % corn. | 30.9.1999               |

(<sup>1</sup>) One FYT is the amount of enzyme which liberates one micromole of inorganic phosphate per minute from sodium phytate at pH 5,5 and 37 °C.

(<sup>2</sup>) One GALU is the amount of enzyme which hydrolyses one micromole of p-nitrophenyl-alpha-galactopyranoside per minute at pH 5,0 and 30 °C.

(<sup>3</sup>) One FBG is the amount of enzyme which liberates one micromole of reducing sugars (glucose equivalents) from barley beta-glucan per minute at pH 5,5 and 37 °C.

(<sup>4</sup>) One FXU is the amount of enzyme which liberates 7,8 micromoles of reducing sugars (xylose equivalents) from azo-wheat arabinoxylan per minute at pH 6,0 and 50 °C.

(<sup>5</sup>) One FXU is the amount of enzyme which liberates 3,1 micromoles of reducing sugars (xylose equivalents) from azo-wheat arabinoxylan per minute at pH 6,0 and 50 °C.

(<sup>6</sup>) One FBG is the amount of enzyme which liberates one micromole of reducing sugars (glucose equivalents) from barley beta-glucan per minute at pH 6,0 and 50 °C.

(<sup>7</sup>) One FXU is the amount of enzyme which liberates 0,15 micromoles of xylose from azurine-cross-linked xylan per minute at pH 6,0 and 50 °C.

(<sup>8</sup>) One BGU is the amount of enzyme which liberates 0,15 micromoles of glucose from azurine-cross-linked beta-glucan per minute at pH 5,0 and 40 °C.

(<sup>9</sup>) One BGU is the amount of enzyme which liberates 0,15 micromoles of glucose from azurine-cross-linked xylan per minute at pH 5,0 and 40 °C.

(<sup>10</sup>) One FXU is the amount of enzyme which liberates 0,15 micromoles of xylose from oat spelt xylan per minute at pH 5,0 and 40 °C.

(<sup>11</sup>) One EXU is the amount of enzyme which converts 1 mg of soluble starch into a product having an equal absorption to a reference colour at 620 nm after reaction with iodine, per minute at pH 6,6 and 30 °C.

(<sup>12</sup>) One RAU is the amount of enzyme which converts 1 mg of soluble starch into a product having an equal absorption to a reference colour at 620 nm after reaction with iodine, per minute at pH 6,6 and 30 °C.

(<sup>13</sup>) One U is the amount of enzyme which liberates 0,1 micromoles of glucose from carboxymethylcellulose per minute at pH 5,0 and 40 °C.

(<sup>14</sup>) One U is the amount of enzyme which liberates 0,1 micromoles of glucose from barley beta-glucan per minute at pH 5,0 and 40 °C.

(<sup>15</sup>) One U is the amount of enzyme which liberates 0,1 micromoles of glucose from oat spelt xylan per minute at pH 5,0 and 40 °C.

(<sup>16</sup>) One U is the amount of enzyme which liberates 0,1 micromoles of glucose from carboxymethylcellulose per minute at pH 5,0 and 40 °C.

(<sup>17</sup>) One U is the amount of enzyme which liberates 0,1 micromoles of glucose from barley beta-glucan per minute at pH 5,0 and 40 °C.

(<sup>18</sup>) One U is the amount of enzyme which liberates 0,1 micromoles of glucose from oat spelt xylan per minute at pH 5,0 and 40 °C.

(<sup>19</sup>) One BGU is the amount of enzyme which liberates 0,278 micromoles of reducing sugars (glucose equivalents) from barley beta-glucan per minute at pH 3,5 and 40 °C.

(<sup>20</sup>) One EXU is the amount of enzyme which liberates 0,128 micromoles of reducing sugars (xylose equivalents) from wheat arabinoxylan per minute at pH 3,5 and 55 °C.

(<sup>21</sup>) One U is the amount of enzyme which liberates 0,1 micromole of xylose from birchwood xylan per minute at pH 5,3 and 50 °C.

(<sup>22</sup>) One U is the amount of enzyme which liberates one micromole of reducing sugars (glucose equivalents) from barley beta-glucan per minute at pH 4,5 and 30 °C.

(<sup>23</sup>) One EPU is the amount of enzyme which liberates 0,0083 micromoles of reducing sugars (xylose equivalents) from oat spelt xylan per minute at pH 4,7 and 30 °C.

(<sup>24</sup>) One AGL is the amount of enzyme which liberates 5,55 micromoles of reducing sugars (maltose equivalents) from barley beta-glucan per minute at pH 4,6 and 30 °C.

(<sup>25</sup>) One AGL is the amount of enzyme which liberates 5,55 micromoles of reducing sugars (maltose equivalents) from barley beta-glucan per minute at pH 4,6 and 30 °C.

(<sup>26</sup>) One AXC is the amount of enzyme which liberates 17,2 micromoles of reducing sugars (maltose equivalents) from oat xylan per minute at pH 4,7 and 30 °C.

(<sup>27</sup>) One AXC is the amount of enzyme which liberates 17,2 micromoles of reducing sugars (maltose equivalents) from oat xylan per minute at pH 4,7 and 30 °C.

(<sup>28</sup>) One BGN is the amount of enzyme which liberates one micromole of reducing sugar (glucose equivalents) from barley betaglucan per minute at pH 4,8 and 50 °C.

- (<sup>30</sup>) One IFP is the amount of enzyme which liberates one micromole of reducing sugars (xylose equivalents) from oat xylan per minute at pH 4.8 and 50 °C.
- (<sup>31</sup>) One QXU is the amount of enzyme which liberates one micromole of reducing sugars (xylose equivalents) from oat xylan per minute at pH 5.1 and 50 °C.
- (<sup>32</sup>) One QGU is the amount of enzyme which liberates one micromole of reducing sugars (glucose equivalents) from barley beta-glucan per minute at pH 4.8 and 50 °C.
- (<sup>33</sup>) One U is the amount of enzyme which liberates one micromole of reducing sugars (glucose equivalents) from oat beta-glucan per minute at pH 4.0 and 30 °C.
- (<sup>34</sup>) One U is the amount of enzyme which liberates one micromole of reducing sugars (xylose equivalents) from oat xylan per minute at pH 4.0 and 30 °C.

## ANNEX II

| Number | Additive                                       | Chemical formula, description   | Species or category of animal | Maximum age                                   | Minimum content<br>CFU/kg of complete feedingstuff | Maximum content      | Other provisions   | Period of authorisation |
|--------|--|---|-------------------------------|---|--|----------------------|--|-------------------------|
|        |  |   |                               |   |  |                      |  |                         |
| 3      | <i>Saccharomyces cerevisiae</i> NCYC Sc 47     | Preparation of <i>Saccharomyces cerevisiae</i> containing a minimum $5 \times 10^9$ CFU/g additive          | Rabbits for fattening         | —   | $2,5 \times 10^9$                                  | $5 \times 10^9$      | In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>May be used in compound feed containing the permitted coccidiostat: meticlorpindol. | 30. 9. 1999             |
|        |  |   | Sows                          | —   | $5 \times 10^9$                                    | $2,5 \times 10^{10}$ | In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.  | 30. 9. 1999             |
|        |  |   | Piglets                       | Four months                                   | $5 \times 10^9$                                    | $1 \times 10^{10}$   | In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.  | 30. 9. 1999             |
| 4      | <i>Bacillus cereus</i> , ATCC 14 893, CIP 5832 | Preparation of <i>Bacillus cereus</i> , ATCC 14 893, CIP 5832 containing a minimum $10^{10}$ CFU/g additive | Piglets                       | Four months                                   | $5 \times 10^8$                                    | $1 \times 10^{10}$   | In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.  | 30. 9. 1999             |
|        |  |   | Pigs for fattening            | —   | $2 \times 10^8$                                    | $1 \times 10^9$      | In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.  | 30. 9. 1999             |
|        |  |   | Sows                          | 15 days before farrowing and during lactation | $8,5 \times 10^8$                                  | $1,2 \times 10^9$    | In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.  | 30. 9. 1999             |

| Number | Additive                                       | Chemical formula, description  | Species or category of animal | Maximum age | Minimum content | Maximum content    | Other provisions   | Period of authorisation         |
|--------|--|--|-------------------------------|-------------|-----------------|--------------------|--|---------------------------------|
|        |  |  |                               |             |                 |                    |  | CFU/kg of complete feedingstuff |
| 5      | <i>Saccharomyces cerevisiae</i><br>CBS 493.94  | Preparation of <i>Saccharomyces cerevisiae</i> containing a minimum of: $1 \times 10^8$ CFU/g additive | Calves                        | 16 weeks    | $1 \times 10^9$ | $1,2 \times 10^9$  | In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.  | 30. 9. 1999                     |
|        |  |  | Chickens for fattening        | —           | $2 \times 10^8$ | $1 \times 10^9$    | In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>May be used in compound feed containing the permitted coccidiostats: Amprolium, Halofuginone, Lasalocid sodium, Maduramicin ammonium, Monensin sodium, Narasin, Salinomycin sodium, Meticlorpindol, Diclazuril. | 30. 9. 1999                     |
|        |  |  | Turkeys for fattening         | 26 weeks    | $2 \times 10^8$ | $1 \times 10^9$    | In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>May be used in compound feed containing the permitted coccidiostats: Amprolium, Halofuginone, Meticlorpindol/Methylbenzoquate, Diclazuril, Nifursol.  | 30. 9. 1999                     |
| 6      | <i>Saccharomyces cerevisiae</i><br>CNCM I-1079 | Preparation of <i>Saccharomyces cerevisiae</i> containing a minimum of: $2 \times 10^9$ CFU/g additive | Calves                        | Six months  | $2 \times 10^8$ | $2 \times 10^9$    | In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.  | 30. 9. 1999                     |
|        |  |  | Sows                          | —           | $2 \times 10^8$ | $1 \times 10^{10}$ | In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.  | 30. 9. 1999                     |
|        |  |  | Piglets                       | Four months | $6 \times 10^9$ | $3 \times 10^{10}$ | In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.  | 30. 9. 1999                     |

| Number | Additive   | Chemical formula, description  | Species or category of animal | Maximum age | Minimum content   | Maximum content   | Other provisions  |             | Period of authorisation |
|--------|--|--|-------------------------------|-------------|-------------------|-------------------|---|-------------|-------------------------|
|        |  |  |                               |             |                   |                   | CFU/kg of complete feedingstuff   |             |                         |
| 7      | Saccharomyces cerevisiae<br>CNCM 1-1077  | Preparation of <i>Saccharomyces cerevisiae</i> containing a minimum of: $2 \times 10^{10}$ CFU/g additive  | Dairy cows                    | —           | $5,5 \times 10^8$ | $2,1 \times 10^8$ | In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>The quantity of <i>Saccharomyces cerevisiae</i> in the daily ration must not exceed $8,4 \times 10^9$ CFU for 100 kg body weight. Add $1,8 \times 10^9$ CFU for each additional 100 kg body weight.                              | 30. 9. 1999 |                         |
|        |  |  | Cattle for fattening          | —           | $1 \times 10^9$   | $1,5 \times 10^8$ | In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>The quantity of <i>Saccharomyces cerevisiae</i> in the daily ration must not exceed $4,6 \times 10^9$ CFU for 100 kg bodyweight. Add $2 \times 10^9$ CFU for each additional 100 kg body weight.                                 | 30. 9. 1999 |                         |
| 8      | <i>Enterococcus faecium</i><br>ATCC 53519<br><i>Enterococcus faecium</i><br>ATCC 55593<br>(In a 1/1 ratio) | Mixture of:<br>encapsulated <i>Enterococcus faecium</i><br>ATCC 53519 and<br>encapsulated <i>Enterococcus faecium</i><br>ATCC 55593 containing a minimum of<br>$2 \times 10^8$ CFU/g of the additive (i.e. a<br>minimum of $1 \times 10^8$ CFU/g of each<br>bacterium) | Chickens for<br>fattening     | —           | $1 \times 10^8$   | $1 \times 10^8$   | In the directions for use of the additive and premixture, indicate the storage temperature, storage life, and stability to pelleting.<br><br>May be used in compound feed containing the permitted coccidiostats: Amprolium, Decoquinate, Halofuginone, Lasalocid sodium, Maduramicin ammonium, Monensin sodium, Narasin, Nicarbazin, Narasin/Nicarbazin, Salinomycin sodium. | 30. 9. 1999 |                         |