

Amendments of standards and specifications of Phytase

Ministry of Agriculture, Forestry and Fisheries (MAFF) will add standards and specifications to the ministerial ordinance.

Major additions are as follows.

Phytase No.2 (5)

Specifications for method of manufacture in general

Phytase of the following specification is allowed to be used as feed additives for pigs, broilers, layers, and quails only.

Specifications for feed additives

Active Substance

Compositional specifications

Unit ≥ 5000 phytic acid degradation/1g

Physical and chemical properties

- (1) It comes in yellow-brown liquid.
- (2) pH of aqueous solution (1 part solute/100 parts solution) is 3.5 to 6.0.
- (3) It has the best enzyme activity when pH is between 3.5 and 5.5.

Ignition residue $\leq 5.0\%$ (0.5g)

Standard for method of manufacture

Genetically modified *Aspergillus niger* should be cultured. The cultured solution should be filtered or be extracted with water. The bacteria in the cultured solution has to be killed and removed by filtration, and the filtrate must be concentrated.

Standard for method of storage

The products must be stored in light-shielding and airtight containers.

Product No. 1

Compositional specifications

This product comes in the form of liquid and is produced by adding excipient substance to the Active Substance of Phytase No.2(5).

Unit This product contains the amount of Phytase corresponding to 85 to 170% of the phytic acid degradation unit of activity shown on the label.

Standard for method of storage

Same as the standard for method of Active Substance of Phytase No.2(5).

Product No. 2

Compositional specifications

This product comes in the form of granules, pieces, or particles and is produced by adding aqueous solution selectively containing polyvinyl alcohol and excipient substances to the Active Substance of Phytase No.2(5), granulating, drying and coating with oxidized polyethylene wax, oleic acid and ammonium hydroxide.

Unit This product contains the amount of Phytase corresponding to 85 to 170% of the phytic acid degradation unit of activity shown on the label.

Standard for method of storage

Same as the standard for method of Active Substance of Phytase No.2(5).