Amendments of the standards and specifications of Feed Additives

Ministry of Agriculture, Forestry and Fisheries (MAFF)
(1) will designate Manganese methionine hydroxy analogue chelate and Copper methionine hydroxy analogue chelate as feed additives and establish their standards and of specifications; and
(2) will remove the maximum content limits of Astaxanthin, β-Apo-8’-carotenic acid ethylester and Canthaxanthin in semi-manufactured products for feed, and add standards for labelling on them which contain Astaxanthin, β-Apo-8’-carotenic acid ethylester and Canthaxanthin more than the maximum content limit in final feed products.

Outline of the amendments of standards and specifications is as follows.

(1) Designation of Manganese methionine hydroxy analogue chelate and Copper methionine hydroxy analogue chelate as feed additives

Manganese methionine hydroxy analogue chelate

A. Specifications for feed additives
a. Active Substance

Compositional specifications

Content
hydroxy methionine analogue ((2-hydroxy-4-methylthio)butanoic acid, HMTBa) 76.0–82.0 %
Mn 13.0–19.0 %

Physical and chemical properties
It comes in gray to brown powder and has characteristic odor.

Purity
(1) Lead ≤ 30 µg/g
(2) Arsenic ≤ 20 µg/g

Standard for method of storage
The products must be stored in airtight containers.

b. Product

Compositional specifications
Same as specifications for Active Substance.

Standard for method of storage
Same as standard for methods of storage for Active Substance.
B. Standard for labeling on feed in general

Copper methionine hydroxy analogue chelate

A. Specifications for feed additives
   a. Active Substance
      Compositional specifications
      Content
      hydroxy methionine analogue ((2-hydroxy-4-methylthio)butanoic acid, HMTBa) 78.0–83.0 %
      Cu 15.0–20.0 %
      Physical and chemical properties
      It comes in gray to green powder and has characteristic odor.
      Purity
      (1) Lead ≤ 30 µg/g
      (2) Arsenic ≤ 10 µg/g
      Standard for method of storage
      The products must be stored in airtight containers.

   b. Product
      Compositional specifications
      Same as specifications for Active Substance.
      Standard for method of storage
      Same as standard for methods of storage for Active Substance.

B. Standard for labeling on feed in general

(2) Removal of the maximum content limits of Astaxanthin, β-Apo-8’-carotenic acid ethylester and Canthaxanthin in semi-manufactured products for feed, and adding standards for labelling

Astaxanthin

A. Compositional specifications in general
   Maximum content of Astaxanthin in feed, except for ingredients and semi-manufactured products
   Feed for fishes ≤ 100 g/ton feed
   Feed for shellfishes ≤ 200 g/ton feed
   (Words underlined are additions.)
B. **Standard for labelling on feed in general**
Amount of contained Astaxanthin is needed to be labelled on ingredients and semi-manufactured products containing more than the maximum content described above.

β-Apo-8’-carotenic acid ethylester

A. **Compositional specifications in general**
Maximum content of β-Apo-8’-carotenic acid in feed, except for ingredients and semi-manufactured products
- Feed for broilers and layers ≤ 80 g/ton feed

(Words underlined are additions.)

B. **Standard for labelling in general**
Amount of contained β-Apo-8’-carotenic acid ethylester is needed to be labelled on ingredients and semi-manufactured products containing more than the maximum content described above.

Canthaxanthin

A. **Compositional specifications in general**
Maximum content of Canthaxanthin in feed, except for ingredients and semi-manufactured products
- Feed for broilers and layers ≤ 8 g/ton feed
- Feed for salmons and shellfishes ≤ 80 g/ton feed

(Words underlined are additions.)

B. **Standard for labelling on feed in general**
Amount of contained Canthaxanthin is needed to be labelled on ingredients and semi-manufactured products containing more than the maximum content described above.