

Voluntary Report – Voluntary - Public Distribution

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Report Name: Feed Additives and Ingredients Catalogues Updates

Country: China - People's Republic of

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Prepared By: FAS China Office

Approved By: Adam Branson

Report Highlights:

On January 12, 2024, the People’s Republic of China (PRC) Ministry of Agriculture and Rural Affairs (MARA) announced its approval of one new feed variety, three new varieties of feed additives, and the addition of five feed additives and five feed ingredients into its feed catalogs. This report contains an unofficial translation of the announcement and the revised parts of the catalogs for feed additives and ingredients. U.S. exporters should note that the original catalog in Chinese is the final authority for interpretation. Stakeholders should conduct their own review of the regulation. Of note for U.S. industry was the inclusion of Almond Hulls along with Almond Hulls with Shells in the catalogs.

Report Summary:

On January 12, 2024, MARA released [Announcement No. 774](#) (link in Chinese) on the approval of one new feed variety, three new feed additives, and the addition of five feed additives in feed additives catalog and five new ingredients in feed ingredients catalog. Note that updates to the MARA catalogs are not typically notified to the World Trade Organization.

The application scopes of the feed additives catalog and featured description in feed ingredients catalog were revised. Major additions and revisions are listed below:

1. Approved *methylococcus capsulatus* cell protein as a new feed variety and noted it would be managed as single feed. Approved three varieties of pancreatin (derived from porcine pancreas), potassium magnesium sulfate, and stevia extract as new feed additives.
2. Approved three feed additives of iron amino acid complex (amino acid mixed by L-lysine and glutamic acid), copper amino acid complex (amino acid mixed by L-lysine and glutamic acid), and manganese amino acid complex (amino acid mixed by L-lysine and glutamic acid) that have not been allowed to be used in China, previously, but have been approved for production and use by the producing countries.
3. Added two feed additives of potassium bicarbonate and cassava polysaccharide iron to the Feed Additives Catalog.
4. Extended the scope of application for feed additives disodium pyrroloquinoline quinone.
5. Added five additional feed ingredients of Almond hulls, almond hulls with shells, *plantago ovata* husks, *cyperus esculentus L.*, and *gardenia jasminoides ellis* to the Feed Ingredients Catalog.
6. Revised the featured descriptions of “13.5.1 Cellulose” in the Feed Ingredients Catalog.

Attachments of the Announcement also include product standards, instructions for use, and products labeling requirements for the newly approved feed additives products. Exporters may refer to those products information to labelling and determination of required substances.

Companies interested in exporting feed additives or ingredients to China must ensure their products are approved for use in the PRC, i.e., featured in the feed additives or feed ingredients catalog and that the facilities are listed by the General Administration of Customs of the People’s Republic of China (GACC) before products are shipped.

This report contains an unofficial translation of the Announcement and the revised information in the catalogs. Stakeholders should conduct their own review of the regulation. The previous feed catalog updates were made in July 2023, please refer to FAS GAIN Report [CH2023-0114](#) for more information.

BEGIN UNOFFICIAL TRANSLATION

Announcement No. 744 of the Ministry of Agriculture and Rural Affairs of People's Republic of China

Publication date: January 12, 2024

Effective date: December 29, 2023

According to the “Regulations on the Administration of Feed and Feed Additives” and “Administrative Measures for New Feed and New Feed Additives,” the Ministry of Agriculture and Rural Affairs (MARA) organized National Feed Review Committee to review the application materials for new feed and new feed additive products submitted by applicants, and decided to approve *methylococcus capsulatus* cell protein as new feed, and pancreatin (derived from porcine pancreas), potassium magnesium sulfate, and stevia extract (active substance: chlorogenic acid and its analogues) as new feed additives, expanded usage scope, and supplemented and revised Feed Ingredients Catalog and Feed Additives Catalog. The relevant matters are hereby announced as follows.

1. Approval of one new feed variety and three new feed additives varieties

Approved the *methylococcus capsulatus* cell protein applied by Kellers (Shanghai) Business Information Consulting Co., Ltd. as new feed, the pancreatin (derived from porcine pancreas) applied by Shanghai Honest Biological Technology Co., Ltd., the potassium magnesium sulfate applied by Qinghai Blue Lake Shancheng Biotechnology Co., Ltd., the stevia extract (active substance: chlorogenic acid and its analogues) applied by Zhucheng Haotian Pharm Co., Ltd. (howtian) as new feed additives and are allowed to be produced, operated, and used in China. New product certificates for feed and feed additives (see attachment 1 for the new products catalog) and products standards (including instructions for use and labels, see attachments 2, 3, 4, and 5) were issued. Products standards shall be implemented from the date of release. The monitoring period of the products is from the date of release to the end of December 2028. Producers should collect information on the quality stability of the product and its impact on the quality and safety of animal products, then report to MARA after the monitoring period ends. *Methylococcus capsulatus* cell protein is managed as single feed.

2. Approval of three feed additives that have not been allowed to be used in China but have been approved for production and use by the producing countries.

Three feed additives varieties of iron amino acid complex (amino acid mixed by L-lysine and glutamic acid), copper amino acid complex (amino acid mixed by L-lysine and glutamic acid), and manganese amino acid complex (amino acid mixed by L-lysine and glutamic acid) have been included in the Feed Additives Catalog. The product information tables are shown in attachments 6, 7, and 8. Relevant products are allowed to be imported and produced, operated, and used in China.

3. Addition of two feed additives to Feed Additives Catalog

(1) Adding potassium bicarbonate to Feed Additives Catalog (see attachments 9 and 10 for product information tables and product standards). The scope of application is milking cows and the recommended addition amount in the total mixed ratio is 0.34% (based on total mixed ratio with a dry matter content of 88%, calculated as potassium).

(2) Supplementing cassava polysaccharide iron to Feed Additives Catalog (see attachments 11 and 12 for product information tables and product standards). The applicable scope is weaned piglets and the recommended addition amount in compound feed is 100-150 mg/kg (based on compound feed with a dry matter content of 88%, calculated as iron).

4. Expansion of the scope of application for feed additives disodium pyrroloquinoline quinone

The scope of application of disodium pyrroloquinoline quinone is extended to weaned piglets and the recommended addition amount in compound feed for weaned piglet is 1.5 to 6.0 mg/kg (based on a total mixed ratio with a dry matter content of 88%).

5. Addition of five new feed ingredients to Feed Ingredients Catalog

Almond hulls, almond hulls with shells, *plantago ovata* husks, *cyperus esculentus* L., and *gardenia jasminoides ellis* are added to Feed Ingredients Catalog (see Attachment 13 for the revised list of Feed Ingredients Catalog).

6. Revision of featured descriptions of “13.5.1 Cellulose” in Feed Ingredients Catalog

The featured description for “13.5.1 Cellulose” in the revised Feed Ingredients Catalog are described as products obtained by mechanical processing of natural woods or bamboos, the main component of which is cellulose.

The above information is hereby announced.

Attachment:

1. New product catalog for feeds and feed additives
2. Product Standard for “Feed Ingredient *Methylococcus Capsulatum* Cell Protein” (Not Included in this translation)
3. Product Standard for “Feed Additive Pancreatin (derived from porcine pancreas)” (Not Included in this translation)
4. Product Standard for “Feed Additive Potassium Magnesium Sulfate” (Not Included in this translation)
5. Product Standard for “Feed Additive Stevia Extract (active substance: chlorogenic acid and its analogues)” (Not Included in this translation)
6. Information Table for Feed Additive Iron Amino Acid Complex (amino acid mixed by L-lysine and glutamic acid) (Not Included in this translation)
7. Information Table for Feed Additive Copper Amino Acid Complex (amino acid mixed by L-lysine and glutamic acid) (Not Included in this translation)
8. Information Table for Feed Additive Manganese Amino Acid Complex (amino acid mixed by L-lysine and glutamic acid) (Not Included in this translation)
9. Information Table for “Feed Additive Potassium Bicarbonate” (Not Included in this translation)
10. Product Standard for “Feed Additive Potassium Bicarbonate” (Not Included in this translation)
11. Information Table for “Feed Additive Cassava Polysaccharide Iron” (Not Included in this translation)
12. Product Standard for “Feed Additive Cassava Polysaccharide Iron” (Not Included in this translation)
13. Revised List of Feed Ingredients Catalog

Attachment 1: New Product Catalog for Feed and Feed Additives

New Products Catalog for Feed and Feed Additives (2023-03)

Certificate Number	New Feed Certificate Number 新饲证字 (2023) 03	
Applying Company	Kellers (Shanghai) Business Information Consulting Co., Ltd.	
Common Name	荚膜甲基球菌蛋白	
English Name	<i>Methylococcus capsulatus</i> cell protein	
Product Category	Microbial protein feed ingredients obtained by culturing specific microorganisms with specific culture media	
Featured Description	Products use methane from natural gas as main raw material, use <i>Methylococcus capsulatus</i> (CICC 11106s) as main production strain, use <i>Cupriavidus cauae</i> (CICC 11107s), <i>Aneurinibacillus danicu</i> (CICC 11108s), and <i>Brevibacillus agri</i> (CICC 11109s) as auxiliary strains, and are processed through continuous liquid fermentation, separation of solid and liquid, and drying. The final product does not contain viable cells of the production strains.	
Applicable Animals	Shrimp and Fish	
Recommended Addition Amount in Compound Feed (based on compound feed with a dry matter content of 88%)	Shrimp: 4%-6% Lake fish: 6%-10% Sea fish: 3.0%-4.5%	
Quality Requirements	Appearance and status	Light brown to dark brown powder, no clumps
	Crude protein/ %	≥68
	Crude fat/ %	≥4
	Crude ash/ %	≤10
	Water/ %	≤12
	Coliforms/ (MPN/100 g)	≤3*10 ⁴
	Bacillus cereus/ (CFU/g)	≤1*10 ⁴
	Other sanitation indicators follow GB 13078	
Mandatory Labeling Requirements	Crude protein, crude ash, water	
Other Requirements	Managed as single feed	

New Products Catalog for Feed and Feed Additives (2023-04)

Certificate Number	New Feed Certificate Number 新饲证字 (2023) 04	
Applying Company	Shanghai Honest Biological Technology Co., Ltd.	
Common Name	胰酶 (源自猪胰腺)	
English Name	Pancreatin (derived from porcine pancreas)	
Main Component	Trypsin, Pancreatic lipase, Pancreatic amylase	
Product Category	Enzyme feed additives	
Product Source	It is made from frozen healthy porcine pancreas through slicing, grinding, activation, separation, defatting, drying, crushing, and other processes.	
Applicable Animals	Poultry	
Recommended Addition Amount in Compound Feed (based on compound feed with a dry matter content of 88%)	250-1,000 mg/kg (calculated by product)	
Quality Requirements	Appearance and status	White to light yellow powder, no abnormal smell.
	Water/ %	≤10
	Granularity (0.425 mm sieve rate test)/ %	100
	Trypsin activity/ (U/g)	≥500
	Pancreatic amylase activity/ (U/g)	≥2,500
	Pancreatic lipase activity/ (U/g)	≥3,500
	Aflatoxin B ₁ / (μg/kg)	≤10
	Ethanol residue/ %	≤0.5
	Total arsenic (based on As)/ (mg/kg)	≤3.0
	Pb/ (mg/kg)	≤10.0
	Cd/ (mg/kg)	≤0.5
	Salmonella/ (25g)	Not detectable
	Coniform/ (MPN/100g)	≤3,000
	Total bacterial/ (CFU/g)	≤2*10 ⁶
Mold and yeast total/ (CFU/g)	≤100	

New Products Catalog for Feed and Feed Additives (2023-05)

Certificate Number	New Feed Certificate Number 新饲证字 (2023) 05	
Applying Company	Qinghai Blue Lake Shancheng Biotechnology Co., Ltd.	
Common Name	硫酸镁钾	
English Name	Potassium magnesium sulfate	
Main Component	Potassium magnesium sulfate ($K_2Mg_2(SO_4)_3$)	
Product Category	Mineral elements and their complex (chelate) feed additives	
Product Source	It is produced from picromerite of salt-lake brine, through high-temperature dehydration, crushing, impurity removal, and other processes.	
Applicable Animals	Weaned piglets	
Recommended Addition Amount in Compound Feed (based on compound feed with a dry matter content of 88%)	0.15%-0.3% (calculated by product)	
Quality Requirements	Appearance and status	White powder and some fine particles
	Potassium/ %	≥ 18.0
	Magnesium/ %	≥ 8.0
	Sulfur/ %	≥ 20.0
	Water/ %	≤ 3.0
	Granularity (0.85 mm sieve rate test)/ %	≥ 95.0
	Lead/ (mg/kg)	≤ 10
	Total arsenic/ (based on As)/ (mg/kg)	≤ 5
	Mercury/ (mg/kg)	≤ 0.5
Fluorine/ (mg/kg)	≤ 100	

New Products Catalog for Feed and Feed Additives (2023-06)

Certificate Number	New Feed Certificate Number 新饲证字 (2023) 06	
Applying Company	Zhucheng Haotian Pharm Co., Ltd. (HOWTIAN)	
Common Name	甜叶菊提取物（有效成分为绿原酸及其类似物）	
English Name	Stevia extract (active substance: chlorogenic acid and its analogues)	
Main Component	Chlorogenic acid and its analogues, including chlorogenic acid, neochlorogenic acid, cryptochlorogenic acid, isochlorogenic acid A, isochlorogenic acid B, and isochlorogenic acid C.	
Product Category	Plant extract feed additives	
Product Source	It uses stevia as raw material and is processed through extraction, resin adsorption, analysis, concentration, drying, etc.	
Applicable Animals	Broiler chickens and weaned piglets	
Recommended Addition Amount in Compound Feed (based on compound feed with a dry matter content of 88%)	Broiler chicken: 110 mg/kg (calculated by product) Weaned piglets: 200-400 mg/kg (calculated by product)	
Quality Requirements	Appearance and status	Brown to dark brown powder, consistent color, no mold, no spoilage.
	Chlorogenic acid (C ₁₆ H ₁₈ O ₉) (based on dry content)/ %	≥10.0
	Chlorogenic acid and its analogues (based on sum of chlorogenic acid, neochlorogenic acid, cryptochlorogenic acid, isochlorogenic acid A, isochlorogenic acid B, and isochlorogenic acid C, and based on dry content)/ %	≥40.0
	Water/ %	≤5.0
	Crush ash/ %	≤10.0
	Total arsenic (based on As)/ (mg/kg)	≤2.0
	Lead (Pb)/ (mg/kg)	≤5.0
	Total bacteria (CFU/g)	≤1,000
	Total mold (CFU/g)	≤100

Attachment 13: Revised List of “Feed Ingredients Catalog”

Numbers	Ingredients Names	Feature Descriptions	Mandatory Labeling Requirements
4.13	Other		
4.13.1	Cyperus esculentus L	Dried products of underground roots of <i>Cyperus esculentus L. var. satovus</i> Boeck).	
5.2	Fruits or Nuts and Products		
5.2.6	Almond Hulls	The dried almond hulls obtained by removing the kernel and shell of the almonds, the products can be in different forms through processes such as crushing and extrusion. The soluble sugar content is not less than 18%, the crude fiber content is not more than 15%, the crude ash content is not more than 9%, and the water content is not more than 13%.	Soluble sugar, crude fiber, crude ash, water content.
5.2.7	Almond Hulls with Shells	The dried almond hulls with shells obtained by removing the kernel from almonds, the products can be in different forms through processes such as crushing and extrusion. The soluble sugar content is not less than 10%, the crude fiber content is not more than 29%, the crude ash content is not more than 9%, and the water content is not more than 13%.	Soluble sugar, crude fiber, crude ash, water content.
5.5	<i>Plantago ovata</i> and its processed products		
5.5.1	<i>Plantago ovata</i> husks	Products are crushed by husks of <i>Plantago ovata</i> seeds and are limited to pet feed.	Water content Total dietary fiber Expansion index
7.6	Other natural plants for feed (only refers to products obtained by drying and crude extraction, or drying and crushing of the plant or specific parts of the plant)		
7.6.118	Gardenia	Dry ripe fruit of <i>Gardenia jasminoides</i> Ellis.	
12.3	Microbial protein products obtained by culturing specific microorganisms with specific culture media (microbial cells have been dormant or inactivated)		
12.3.6	<i>Methylococcus capsulatus</i> cell protein	<i>Methylococcus capsulatus</i> (CICC 11106s) is used as the main production strain, <i>Cupriavidus cauae</i> (CICC 11107s),	Crude protein Crude ash Water content

		<i>Aneurinibacillus danicu</i> (CICC 11108s), and <i>Brevibacillus agri</i> (CICC 11109s) are used as auxiliary strains, and methane in natural gas is used as the main raw material. It undergoes continuous liquid fermentation, solid and liquid separation, and drying processes, etc. The final product does not contain viable cells of the production strain.	
13.5	Cellulose and its processed products		
13.5.1	Cellulose	Products obtained by mechanical processing of natural woods or bamboos, the main component of which is cellulose	Crude fiber Crude ash Water content

END TRANSACTION

Attachments:

No Attachments.