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National Food Safety Standard-Maximum Levels of Mycotoxins in Food

Report Categories:

FAIRS Subject Report

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Report Highlights:
On August 12, China's Ministry of Health notified the WTO of Maximum Levels of Mycotoxins in Foods as G/SPS/N/CHN/311. The date for submission of final comments to China is October 11, 2010. The proposed date of entry is to be determined. Contact information on where to send comments is inside the report. This report is an INFORMAL translation of this document.

Executive Summary:
On August 12, China's Ministry of Health notified the WTO of Maximum Levels of Mycotoxins in Foods as G/SPS/N/CHN/311. This standard prescribes the Maximum levels of Aflatoxin B1, Aflatoxins M1, Deoxynivalenol, Patulin, Ochratoxin A, and Zearalenone in foods. The date for submission of final comments to China is October 11, 2010. The proposed date of entry is to be determined.

Comments can be sent to China's SPS Enquiry Point at sps@aqsiq.gov.cn

This report is an INFORMAL translation of this document.

General Information:

BEGIN TRANSLATION

National food safety standard

Maximum levels of mycotoxins in foods

(Draft for comment)

Preface

This Standard replaces GB 2761-2005-- Maximum Levels of Mycotoxins in Foods and the maximum levels of Mycotoxins in GB 2715-2005-- Hygienic Standard for Grains, any indicators in this Standard covered by other national standards shall be subject to this Standard.

Compared with GB 2761-2005, major modification in this Standard is as follows:

——Modification has been made to the indicators of maximum levels of Aflatoxin B1, Aflatoxin M1, Deoxynivalenol and Patulin;

——Add to the indicators of Ochratoxin A and zearalenone;

——Add to the definition of "edible parts" of the food raw material and prescribe that the maximum levels in the raw food materials can be discounted according to edible parts;

——Modification has been made to the inspection methods for Aflatoxin B_1 and Aflatoxin M_1.

The publication history of the previous standards replaced by this Standard is as follows:

——GB 2761-2005。

National Food Safety Standard

Maximum Levels of Mycotoxins in Foods

1 Scope

This Standard stipulates the indicators of maximum levels of Aflatoxin B1, Aflatoxin M1, Deoxynivalenol, Patulin, Ochratoxin A and zearalenone in foods.

2 Normative references

The clauses in the following referenced documents have been cited and become part of this standard. For documents with dates, their subsequent modifications (excluding error corrections) or revised versions are not applicable to the Standard. For those documents without dates, their latest versions are applicable to this Standard.

3 Terms and Definitions

3.1 Mycotoxins

Mycotoxins refer to a secondary venomous fungal metabolite produced by aflatoxigenic fungi in the course of certain fungal growth and reproduction.

3.2 Maximum levels，MLs

The maximum density of Mycotoxins allowed in edible parts of the food raw materials and/or finished food products.

3.3 Edible parts

Edible parts refer to the usually edible and drinkable parts obtained from the food raw materials after the inedible parts of the food raw materials are dispelled by mechanical means when bones are removed from meat or fish, the sellfish is shelled, the grains are milled,the fruit is peeled and the nuts are shelled, but excluding the displling process that other method is required (such as getting refined vegetable oil from unrefined vegetable oil).

The inedible parts dispelled from the edible parts of the foods are usually based on the processed finished products that meet specified standards, for example, when wheat is made into

cereal or whole wheat noodle, the edibel part is 100%, when made into flour, it shall be discounted according to flour yield.

4 Requirements of Indicators

4.1 Aflatoxin B_1

See Table 1 for indicators of maximum levels of Aflatoxin B_1 in foods.

Table 1. Indicators of Maximum Levels of Aflatoxin B_1 in Foods

Food type/Name	Maximum level (MLs) / (μg /kg)	Method of inspection
Cereals and theirs products		GB/T 5009.23
Maize and its products	20	
Rice	10	
Other cereals	5	
Legumes and their products	5	
Nuts and seeds		GB/T 5009.23
Peanut and its products	20	
Other cooked nuts and seeds	5	
Vegetable fats		
Peanut oil, corn oil	20	
Other vegetable oils	10	
Condiments		
Sauce, vinegar, soy sauce	5	
Special nutritious foods		GB 5009.24
Infant formulas [a]	0.5 (以粉状产品计)	
Cereal supplementary foods for infant and babies	0.5	
[a] The products mainly based on soybean and soybean protein products		

4.2 Aflatoxin M_1

See Table 2 for indicators of maximum levels of Aflatoxin M1 in foods.

Table 2. Indicators of Maximum Levels of Aflatoxin M_1 in Foods

Food type/Name	Maximum level (MLs) / (μg /kg)	Method of inspection
Milk and milk products [a]	0.5	GB 5413.37
Infant formulas [b]	0.5 (by powdery product)	
[a] Milk powder is converted by raw milk. [b] The products mainly based on milk and milk protein products		

4.3 Deoxynivalenol

See Table 3 for indicators of maximum levels of Deoxynivalenol in foods.

Table 3. Indicators of Maximum Levels of Deoxynivalenol in Foods

Food type/Name	Maximum level (MLs) / (μg /kg)	Method of inspection
Maize, maize flour (pulp)	1000	GB/T 5009.111
Barley, wheat	1000	
Oatmeal, flour	1000	

4.4 Patulin

See Table 4 for indicators of maximum levels of Patulin in foods.

Table 4. Indicators of Maximum Levels of Patulin in Foods

Food type/Name	Maximum level (MLs) / (μg /kg)	Method of inspection
Apple products, haw products	50	GB/T 5009.185

4.5 Ochratoxin A

See Table 5 for indicators of maximum levels of Ochratoxin A in foods.

Table 5. Indicators of Maximum Levels of Ochratoxin A in Foods

Food type/Name	Maximum level (MLs) / (μg /kg)	Method of inspection
Cereals	5	GB/T 5009.96
Legumes (soybean, pea)	5	

4.6 Zearalenone

See Table 1 for indicators of maximum levels of **Z**earalenone in foods

Table 6. Indicators of Maximum Levels of Zearalenone in Foods

Food type/Name	Maximum level (MLs) / (μg /kg)	Method of inspection
Wheat, flour	60	GB/T 5009.209
Maize, maize flour (pulp)	60	

END TRANSLATION