

(Unofficial)

Announcement of the Food and Drug Administration

Re: Analysis of Feeding Bottles and Milk Containers for Infants and Young Children

As Notification of Ministry of Public Health (No.369) B.E.2558 (2015) regarding Feeding Bottles and Milk Containers for Infants and Young Children prescribes qualities or standards of migration of substances according to type of materials used in manufacturing of feeding bottles and milk containers for infants and young children in order to have consistent analysis methods for qualities or standards of such products, the Food and Drug Administration has prescribed analysis method of feeding bottles and milk containers for infants and young children as in annex of this announcement.

Announced on 26th June B.E.2558 (2015)

(Signed) Boonchai Somboonsook

(Boonchai Somboonsook)

Secretary General of FDA

Note: This English version of the notification is translated to meet the need of the non-Thai speaking people. In case of any discrepancy between the Thai original and the English translation, the former will take priority.

Annex to Announcement of Food and Drug Administration

Re: Analysis of Feeding Bottle and Milk Containers for Infants and Young Children

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a b c d e	No.	Analyzed Item	Principles	Analysis method	Type ¹
1		Heavy metal Lead (Pb) Barium (Ba) Cobalt (Co) Copper (Cu) Iron (Fe) Lithium (Li) Manganese (Mn) Zinc (Zn)	Migration*AAS		I
2		Residual substance after evaporation of 50% ethanol as extraction solvent (food representative: milk and water)	Migration**, Gravimetry and drying	EN-1186 :2002 Part 1,3,9	I
3		Residual substance after evaporation of 3% acetic acid as extraction solvent (food representative: fruit juice)	Migration**, Gravimetry and drying	EN-1186 :2002 Part 1,3,9	I
4		2,2-bis(4-hydroxyphenyl) propane or bisphenol A	Migration***, HPLC-FL	EURL-Food Contact material ILC 2009/02 BPA in 50% ethanol Annex 1	I
5 (only Polyethersulphone)		4,4'-dichlorodiphenyl sulphone or DCPS	Migration***, HPLC-UV	Korea Food and Drug Administration (KFDA) 2013. Korea Standards and Specifications for Utensils, Containers and Packaging for Food Products	I

No.	Analyzed Item	Principles	Analysis method	Type ¹
6 (only Polyethersulphone)	4,4'-dihydroxydiphenyl sulphone or DHPS	Migration ^{***} , HPLC-UV	Korea Food and Drug Administration (KFDA) 2013. Korea Standards and Specifications for Utensils, Containers and Packaging for Food Products	I

Remark

* means condition of migration test at 70°C, 2 hrs representative of food tested, acetic acid solution with concentration 3%(w/v)

** means condition of migration test at 70 °C, 2 hrs.

*** means condition of migration test at 70°C , 2 hrs representative of food tested, ethanol solution with concentration 50%(v/v) and acetic acid solution with concentration 3%(w/v)

¹ Type by Type I (Defining methods) is analysis method that value or result of this method cannot be compared with value or result from other methods and can be verified by this method only.

Table 2 Chemical analysis for qualities or standards of migration of substances from natural and synthetic rubber

No.	Analyzed Items	Principle	Analysis method	Type ¹
1	Formaldehyde	Migration, Spectrophotometry	DMSc F1036 based on JETRO 2008	I
2	Zinc	Migration, AAS	JETRO 2008	I
3	N-Nitrosamines substances	Migration, GC-TEA	EN 12868:1999	I
4	N-Nitrosatable substances	Migration, GC-TEA	EN 12868:1999	I
5 (only synthetic rubber from silicone)	Volatile compounds content	Gravimetry, drying at 200°C	EN 14350-2:2004	I
6 (only natural rubber from vulcanised rubber)	2- mercaptobenzothiazole release or MBT release	Migration, HPLC	EN 14350-2:2004	I
7 (only natural rubber from vulcanised rubber)	Antioxidant release 7.1 2,6-bis(1,1-dimethylethyl)-4- methyl-phenol) (BHT) 7.2 2,2'-methylenebis(6-(1,1- dimethylethyl)-4-methyl-phenol)) (Antioxidant 2246)	Migration, HPLC	EN 14350-2:2004 EN 14350-2:2004	I I

Remark

¹ Type by Type I (Defining methods) is analysis method that value or result of this method cannot be compared with value or result from other methods and can be verified by this method only.