



GB 31604.8—2021

National Food Safety Standard Food Contact Materials and Articles Determination of Overall Migration

食品安全国家标准 食品接触材料及制品
总迁移量的测定

National Health Commission of the People's
Republic of China
State Administration for Market Regulation

Release Date: Sep. 07, 2021
Implementation Date : Mar. 07, 2022

Translated by ChemLinked

Disclaimer

This is an unofficial document provided by **ChemLinked** (chemlinked.com), a platform of REACH24H Consulting Group, as an informational service to assist non-Chinese companies to better understand the Asia Pacific regulatory environment and importation compliance requirements especially China Chemical, Cosmetic, Food and Agrochemical regulatory issues.

This document should only be used as a reference and in case of any discrepancy between the English and Chinese versions the original Chinese version shall prevail.

Nondisclosure:

You may not disclose this document to anyone else without the written permission of ChemLinked.

For further clarification and questions, you can read our [Privacy Policies](#) or contact us at food@chemlinked.com



National Standard of the People's Republic of China

GB 31604.8-2021

National Food Safety Standard

Food Contact Materials and Articles Determination of Overall Migration

食品安全国家标准

食品接触材料及制品 总迁移量的测定

Date of publication: 2021-09-07

Date of implementation: 2022-03-07

Issued by

National Health Commission of the People's Republic of China
State Administration for Market Regulation

ChemLinked Team, REACH24H Consulting Group | <http://food.chemlinked.com>

14F, #3 Bldg., Haichuang Technology Center, No. 1288 Wenyi West Road, Hangzhou, China. PC: 311121

Tel: +86 571 8710 3822 | Fax: +86 571 8700 7566 | Email: food.chemlinked.com

Preface

This standard replaces GB 31604.8-2016 “National Food Safety Standard Food Contact Materials and Articles Determination of Overall Migration”.

Compared with GB 31604.8-2016, the major changes of this standard are as follows:

- revised the application scope of standard;
- revised the requirements for precision;
- added “Part II Determination of overall migration in olive oil”.

National Food Safety Standard

Food Contact Materials and Articles Determination of Overall Migration

1. Scope

This standard specifies the method for determination of overall migration from food contact materials and articles.

This standard applies to the determination of overall migration from food contact materials and articles.

Part I Determination of overall migration into water-based food simulant and chemical substitute solvent

2. Principle

The test sample was soaked with water-based food simulant and chemical substitute solvent [e.g. *n*-hexane, isooctane, 95% (V/V) ethanol solution, *n*-heptane] for migration test under the selected migration test conditions, and after the resulting soak solution was evaporated and dried, the total non-volatile matters that migrate from the test sample to the water-based food simulant and chemical substitute solvent was obtained by deducting the corresponding blank.

3. Reagents and Materials

Unless otherwise specified, all the reagents used in this method are analytically pure reagents, and the water used is Grade 2 water specified in GB/T 6682.

3.1 Reagents

3.1.1 Absolute ethanol (C_2H_6O).

3.1.2 Acetic acid ($C_2H_4O_2$).

3.1.3 Trichloromethane ($CHCl_3$).

3.1.4 *n*-hexane (C_6H_{14}).

3.1.5 Isooctane (C_8H_{18}).



Free



Free trial



Standard



Corporate



Special

SUBSCRIBE TO CHEMLINKED NOW

REMOVE FOOD REGULATORY BARRIERS EXPEDITE ASIA MARKET ACCESS

- In-time regulatory information and market access requirements
- Supported by local and experienced technically adept technical team
- Strategic partnerships with competent authorities and industrial associations worldwide
- Customized consulting service for complete compliance solutions.

OUR SERVICES



Information

News, Alerts



Knowledge

Pedia-articles,
Regulatory Analysis, Market Insights, Reports



Databases

Regulatory Database,
English Translations, Lists/Inventories, Q&A



Training

Webinars, Online courses, Offline events



Solutions

Translation, Consultancy, Advertising,
Tailored Regulatory Report,
Business-matching services,
Tailored online and offline training