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National Food Safety Standard

Food Contact Materials and Articles General Rules for Chemical Analysis Methods Verification

食品安全国家标准 食品接触材料及制品
化学分析方法验证通则

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

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National Food Safety Standard
Food Contact Materials and Articles
General Rules for Validation of Chemical Analysis Methods

1 Scope

This standard specifies the general requirements for the validation of chemical analysis methods for food contact materials and articles.

This standard applies to the validation during the development and revision of national food safety standard food contact materials and articles chemical analysis methods.

2 Terms and Definitions

The terms and definitions defined in GB 5009.295-2023 and the following ones apply to this document.

2.1 Chemical substitute solvents

It refers to the chemical solvents used to replace food simulants containing oils & fats (vegetable oils) in the chemical solvent substitution experiment, such as 95% (V/V) ethanol solution, isooctane, *n*-hexane, *n*-heptane, etc.

2.2 Soaking solution

It refers to the solution obtained from a migration test of food contact materials and articles through food simulants or chemical substitute solvents.

3 General Requirements for Validation of Chemical Analysis Methods for Food Contact Materials and Articles

3.1 For a qualitative method, the intra-laboratory and inter-laboratory validation parameters shall include the specificity and limit of detection of the method.

3.2 For a quantitative method, the intra-laboratory validation parameters shall include the specificity, limit of detection, limit of quantitation, measurement range, correctness, and repeatability of the method, while the inter-laboratory validation parameters shall include the limit of detection, limit of quantitation, measurement range, correctness, and reproducibility of the method.



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