



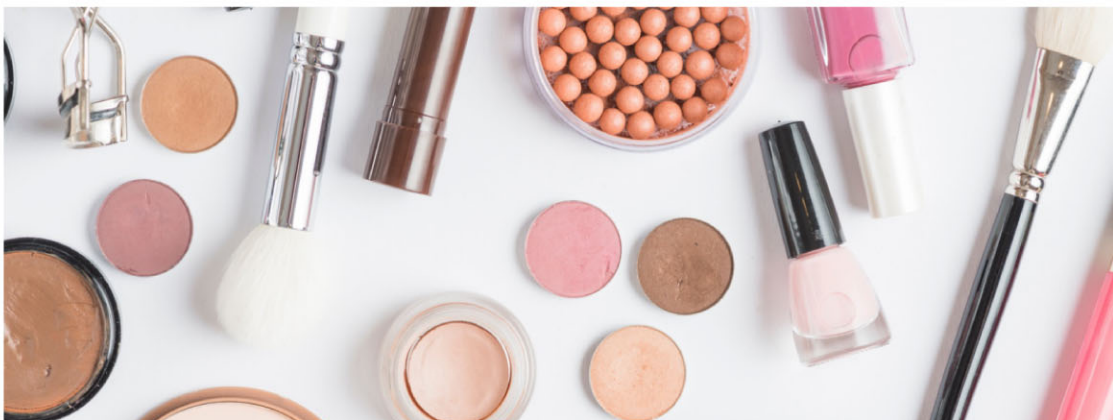
Determination of Free Formaldehyde in Cosmetics (Draft for Comment)

化妆品中游离甲醛的检测方法(征求意见稿)

National Institutes for Food and Drug Control

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Implementation Date: /

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Determination of Free Formaldehyde in Cosmetics

(Draft for Comment)

1 Scope

This method specifies the determination of free formaldehyde content in cosmetics by the post-column derivatization high performance liquid chromatography.

This method applies to the determination of free formaldehyde content in liquid water-based, paste and cream and emulsion, gel, liquid oil-based, wax-based, and powder cosmetics.

2 Method Abstract

The free formaldehyde in the sample is subject to separation by the high performance liquid chromatography, post-column derivatization, and detection by the diode array detector (DAD) at 420 nm wavelength or by the fluorescence detector (FLD) (excitation wavelength: 425 nm, emission wavelength: 510 nm). It then undergoes qualitative analysis according to the retention time and spectrogram and undergoes quantitative analysis based on the peak area, and the free formaldehyde content is calculated by the standard curve method. When 0.2 g of sample is taken, the detectable concentration of formaldehyde of this method is 0.00020%, and the minimum quantitative concentration is 0.00067%.

3 Reagents

Unless otherwise specified, the reagents used in this method all refer to the analytical reagents, and the water is the Grade 1 water specified in GB/T 6682.

3.1 Formaldehyde standard substance aqueous solution.

3.2 Phosphoric acid.

3.3 Ammonium acetate, chromatographically pure.

3.4 Glacial acetic acid.

3.5 Acetylacetone.

3.6 Dichloromethane.

3.7 Petroleum ether (30~60 °C).

3.8 Phosphoric acid solution: take 2 mL of phosphoric acid (3.2), add water to 1000 mL, and mix well.

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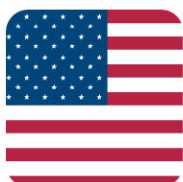
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- + Ingredients analysis and full ingredient list translation
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- + Cosmetic Product Safety Report (CPSR)
- + Preparation of Product Information File (PIF)



- + Cosmetic formula and label compliance review
- + FDA Voluntary Cosmetic Registration Program (VCRP)
- + California Safe Cosmetics Program (CSCP)
- + Toxicological Risk Assessment (TRA)
- + INCI application

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