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QB

**LIGHT INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

QB/T 5409-2019

**Oral care and cleansing products. Determination of
cetylpyridinium chloride in toothpaste. High performance liquid
chromatography**

口腔清洁护理用品 牙膏中十六烷基氯化吡啶（CPC）的测定 高效液相色谱法
(English Translation)

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What this standard covers

This standard specifies the method points, reagents and standard substances, instruments, analysis steps, result calculation, recovery rate, standard deviation and tolerance for the determination of cetylpyridine chloride in toothpaste by high performance liquid chromatography. This standard applies to the determination of cetylpyridine chloride in toothpaste and mouthwash. The detected concentration of this standard cetyl pyridine chloride is 0.2??g/mL, and the minimum quantitative concentration is 0.70??g/mL. If you take 0.5g of toothpaste sample, add 25mL of extract, the limit of detection of cetylpyridine chloride is 10.0mg/kg, and the limit of quantification is 35.0mg/kg; if you take 2.5g of mouthwash sample, add 10mL of extract, ten The limit of detection for hexaalkylpyridine chloride was 0.8 mg/kg and the limit of quantification was 2.8 mg/kg.

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