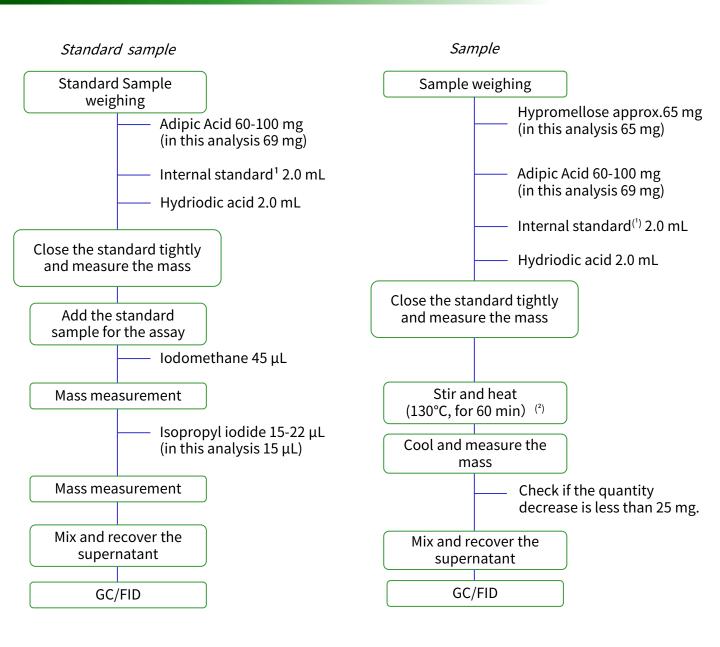
Hypromellose Assay (Japanese Pharmacopeia)

GL Sciences Inc.

This note shows the analysis of Hypromellose which was conducted under the assay method of the new 17th edition of the Japanese Pharmacopeia (JP17). This new method replaces the use of packed column, which was indicated in the old method, with a GC capillary column. Successful results were obtained due to the pretreatment and the analysis methods contained in this application.

Pre-treatment



^{(1) 3} mL of n-octane was diluted to volume in o-Xylene to 100m.

⁽²⁾ This procedure was conducted by using a Reacti-Therm Heating and Stirring Module.

Analysis Conditions and Results

Conditions

System : GC-FID Column : InertCap 1

 $0.53 \text{ mml.D.} \times 30 \text{ m}$ df = $3.00 \,\mu\text{m}$ (Cat.No.: 1010-11448)

Col. Temp. : 50 °C (3 min) - 10 °C/min - 100 °C - 35 °C/min – 250 °C (8 min)

Carrier Gas : He 3 mL/min (Internal standard retention time 10 min)

Injection : Split 1:40

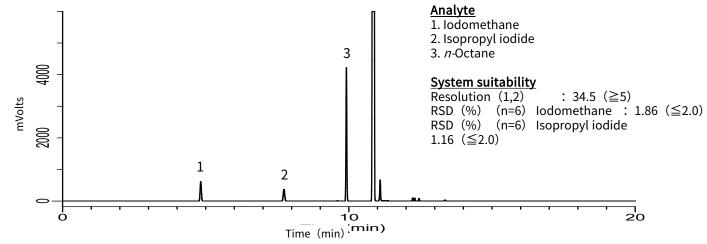
250 °C

Detection: FID Auto Range

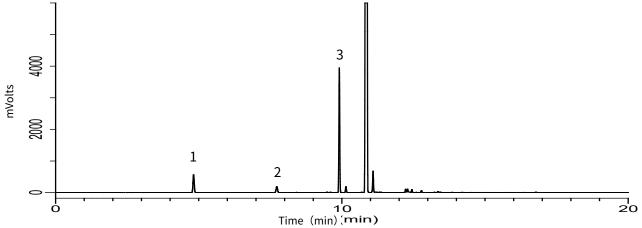
280°C

Sample Size : 1 μL

Standard sample chromatogram



Sample chromatogram



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