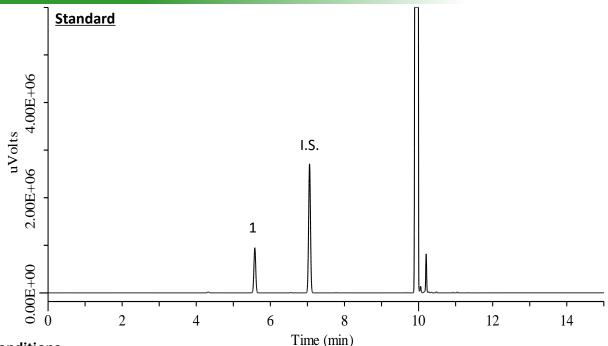
GT093
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# Quantitative Test for Hydroxypropylcellulose with Reference to the Japanese Pharmacopoeia, 17th Edition

The test for hydroxypropyl cellulose was harmonized in the three pharmacopoeias of Japan, Europe and the United States. Based on the revision in the Japanese Pharmacopoeia 17th edition (JP17) the assay method was revised and changed from a conventional packed column-TCD test to a capillary column-FID test.

This application reports analysis using an InertCap 1 non-polar capillary column in accordance with Japanese Pharmacopoeia, 17<sup>th</sup> Edition with excellent results.





#### **Conditions**

Injection Vol.

System : GC - FID
Column : InertCap 1

 $0.53 \text{ mm I.D. } \times 30 \text{ m df} = 3.0 \text{ } \mu\text{m}$ 

**Col. Cat. No.** : 1010-11448

**Col. Temp.** : 40 °C(3 min) - 10 °C/min - 100 °C

-50 °C/min - 250 °C (3 min)

Carrier Gas : He 7.82 mL/min Constant Flow

Injection : Split 1:50

180 °C

: 2 µL

**Detection**: FID Auto Range

280 °C

Sample : Standard solution

## <u>Analyte</u>

Isopropyl iodide
 Methylcyclohexane

Resolution (1, I.S.): 15.95 ( $\ge$  2.0)

Relative retention time (1 to I.S.) : 0.79 (about 0.8)

RSD of the response factor

Calculation (F)(%) (n=6) : 0.29 ( $\leq 2.0$ )

st () The conditions specified in the JP are as follows:

GL Sciences disclaims any and all responsibility for any injury or damage which may be caused by this data directly or indirectly. We reserve the right to amend this information or data at any time and without any prior announcement.

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