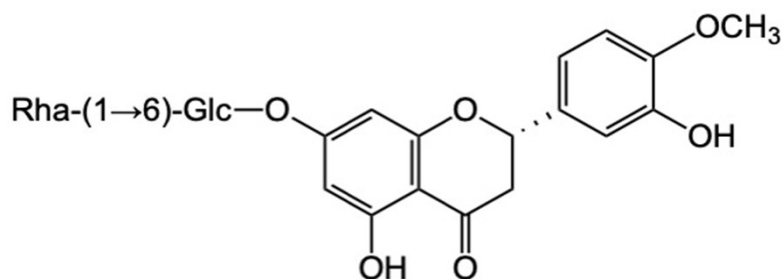


Certificate of Analysis

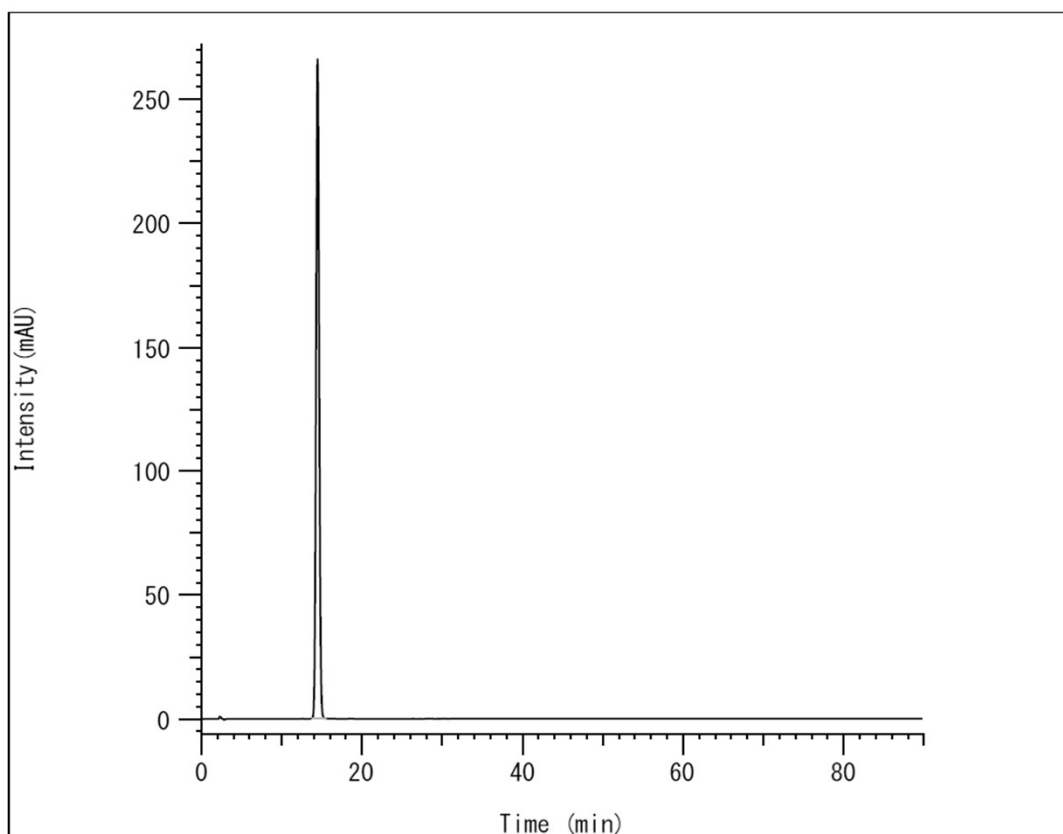
Product No.	33	Product Name	Hesperidin
Lot. No.	332406	Unit Quantity	20mg
Analysis Date	2024-06-04	Storage Conditions	Room temperature

C₂₈H₃₄O₁₅

MW : 610.56

CAS RN: 520-26-3

This product conforms to the specifications in the 19th edition of the Japanese Pharmacopoeia , Reagents, Test Solutions, " Hesperidin for assay, 1) Hesperidin for assay 1" and " Hesperidin for thin-layer chromatography".



Retention time	Peak area	%
14.470	7103134	100.00
Total	7103134	100.00

Area percentage : Not less than 99.0%
 Detector : An ultraviolet absorption photometer (285nm)

Purity Related substances (HPLC)	Column	: Wakosil- II 5C18 HG (ϕ 4.6 × 150mm)	Passed (100.0%)
	Column temperature	: A constant temperature of about 40°C.	
	Mobile phase	: A mixture of water, acetonitrile and acetic acid (100) (82:18:1). 1.0 mL per minute (the retention time of hesperidin is about 15 minutes).	
	Flow rate	: About 6 times as long as the retention time of hesperidin.	
	Time span of measurement	: About 6 times as long as the retention time of hesperidin.	
Description			Passed
Optical rotation $[\alpha]_D^{20}$: -100 ~ -120°			Passed (-112°)
Absorbance $E_{1cm}^{1\%}$ (284 nm) : 310 ~ 340			Passed (327)
Purity Related substances (TLC)			Passed
Water (by coulometric titration)			4.5%
Precautions Order quantities that can be used immediately, and after receipt of a reference standard, store it at the specified temperature and use it as soon as possible.			
Expiration Date	August 2028 (unopened)		

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