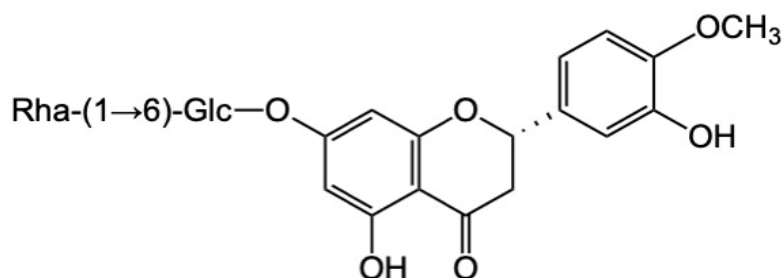


Certificate of Analysis

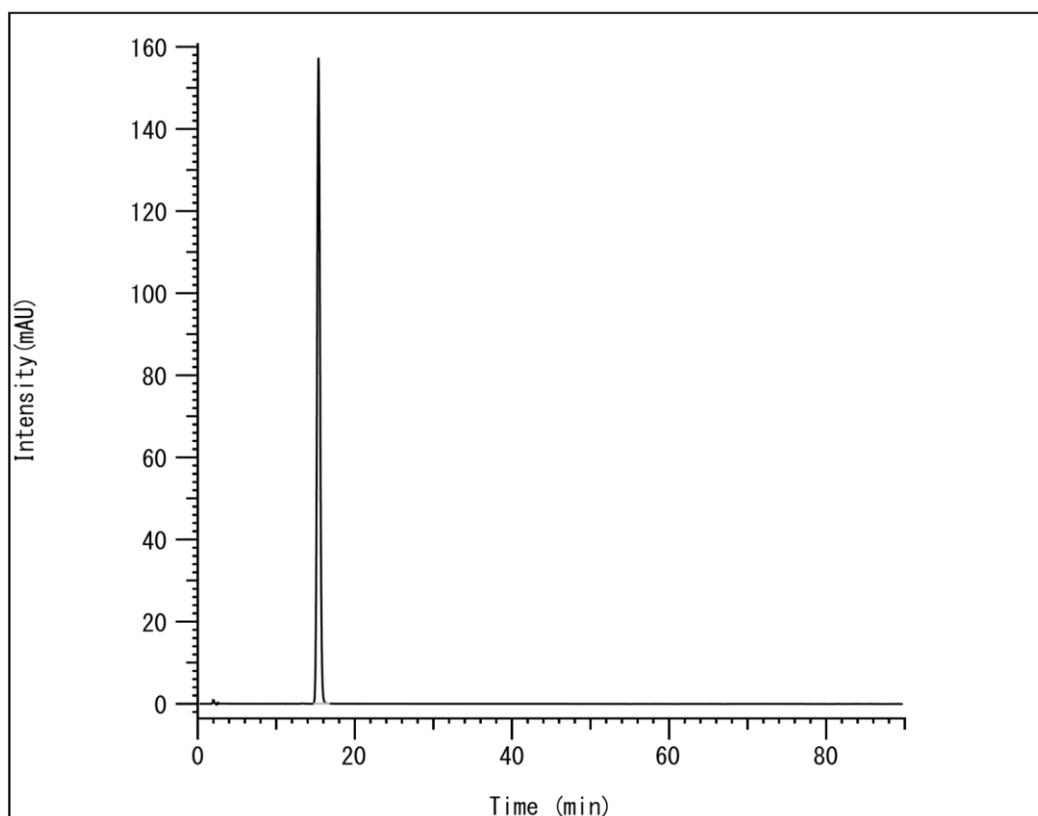
Product No.	33	Product Name	Hesperidin
Lot. No.	332607	Unit Quantity	20mg
Analysis Date	2026-08-07	Storage Conditions	Room temperature


 $\text{C}_{28}\text{H}_{34}\text{O}_{15}$

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	%
15.377	4135334	100.00
Total	4135334	100.00

Area percentage : Not less than 99.0%

Detector : An ultraviolet absorption photometer (285nm)

Purity Related substances (HPLC)	Column	: TSKgel ODS-80Ts (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).	
	Flow rate	: 1.0 mL per minute (the retention time of hesperidin is about 15 minutes).	
	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 (-108°)
Absorbance $E_{1cm}^{1\%}$ (284 nm) : 310 ~ 340			Passed (329)
Purity Related substances (TLC)			Passed
Water (by coulometric titration)			2.9%
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	Luly 2030 (unopened)		

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