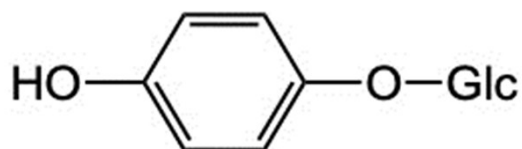


Certificate of Analysis

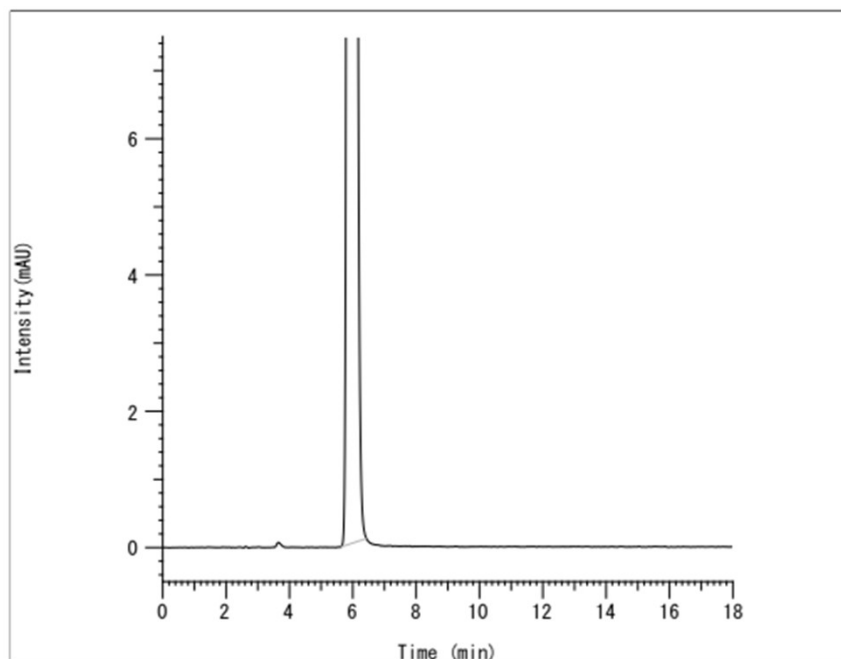
Product No.	03	Product Name	Arbutin
Lot. No.	032301	Unit Quantity	20mg
Analysis Date	2025-02-12	Storage Conditions	Room temperature

C₁₂H₁₆O₇

MW : 272.25

CAS RN: 497-76-7

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



Retention time	Peak area	%
5.947	2058349	100.00
Total	2058349	100.00

Area percentage : Not less than 99.0%

Detector : An ultraviolet absorption photometer (280 nm)

Column : Wakosil- II 5C18 HG (ϕ 4.6 × 150mm)

Purity Related substances (HPLC)	Column temperature : A constant temperature of about 20°C. Mobile phase : A mixture of water, methanol and 0.1 mol/L hydrochloric acid TS (94 : 5 : 1) Flow rate : Adjust so that the retention time of arbutin is about 6 minutes. About 3 times as long as Time span of the retention time of measurement : arbutin, beginning after the solvent peak.	Passed (100.0%)
Assay (Purity value by quantitative NMR)		98.9%
Unity of peak		Passed
Description		Passed
Melting point (199~201°C)		Passed (201°C)
Absorbance $E_{1\text{cm}}^{1\%}$ (280nm) : 70 ~ 76		Passed (71)
Purity Related substances (TLC)		Passed
Water (by coulometric titration)		0.1%
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	January 2027 (unopened)	

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