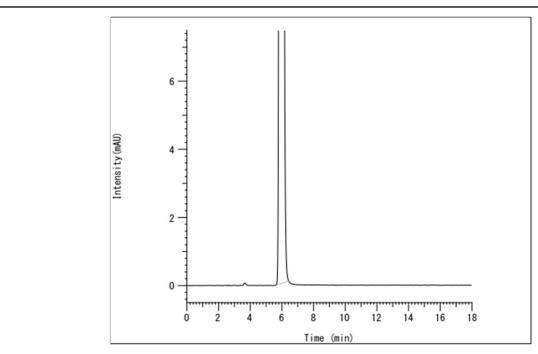
Certificate of Analysis

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

CAS RN: 497-76-7

This product conforms to the specifications in the 18th edition of the Japanese Pharmacopoeia (Supplement 1), Reagents, Test Solutions, "Arbutin for assay" and in the 18th edition of the Japanese Pharmacopoeia, Reagents, Test Solutions, "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

 $(\phi 4.6 \times 150 \text{mm})$

	Column temperature:	A constant temperature of about 20°C.	
Purity Related substances (HPLC)	Mobile phase	mol/L hydrochloric acid TS (94:5:1) Adjust so that the	Passed (100.0%)
	Trow rate	: 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.	
Assay (Purity value by	98.9%		
Unity of peak	Passed		
Description	Passed		
Melting point (199~2	Passed (201°C)		
Absorbance E 10 1cm (Passed (71)		
Purity Related substa	Passed		
Water (by coulometri	0.1%		
Precautions			
Order quantities that	can be used imm	nediately, and after receipt of a	a reference standard,
store it at the specifie	d temperature a	nd use it as soon as possible.	
Expiration Date		January 2026 (unopend	ed)

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