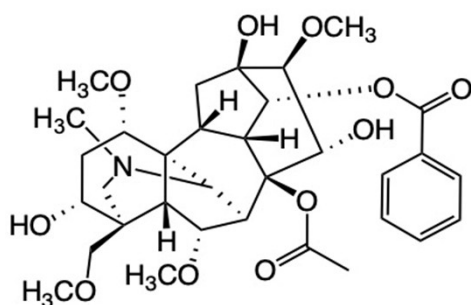


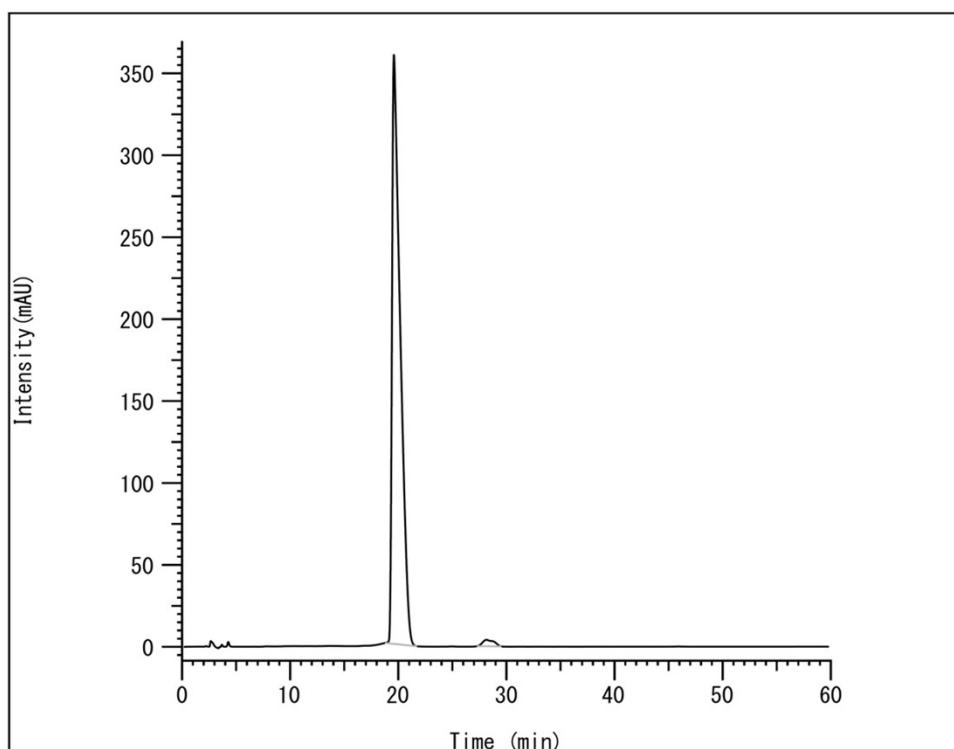
Certificate of Analysis

Product No.	38	Product Name	Mesaconitine
Lot. No.	382401	Unit Quantity	20mg
Analysis Date	2024-01-30	Storage Conditions	Refrigerate ($\leq 10^{\circ}$ C)



$C_{33}H_{45}NO_{11}$
 MW : 631.71
 CAS RN: 2752-64-9

This product conforms to the specifications in the 18th edition of the Japanese Pharmacopoeia, Reagents, Test Solutions, "Mesaconitine for purity".



Retention time	Peak area	%
19.600	18851421	98.48
28.147	291838	1.52
Total	19143259	100.00

Area percentage : Not less than 98.0%
 Detector : An ultraviolet absorption photometer (231nm)
 Column : Wakosil- II 5C18 HG (ϕ 4.6 $\times$ 150mm)

Purity Related substances (HPLC)	Column temperature :	A constant temperature of about 40°C.	Passed (98.5%)
	Mobile phase :	A mixture of phosphate buffer solution for processed aconite root and tetrahydrofuran (9:1).	
	Flow rate :	Adjust so that the retention time of mesaconitine is about 19	
	Time span of measurement :	About 3 times as long as the retention time of mesaconitine, beginning after the solvent peak.	
Description			Passed
Identification (IR)			Passed
Absorbance $E_{1\text{cm}}^{1\%}$ (230nm) : 211~247			Passed (216)
Purity Related substances (TLC)			Passed
Water (by coulometric titration) 1.0%以下			Passed (0.2%)
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 2026 (unopened)		

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