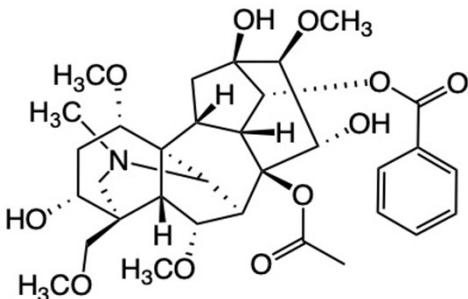


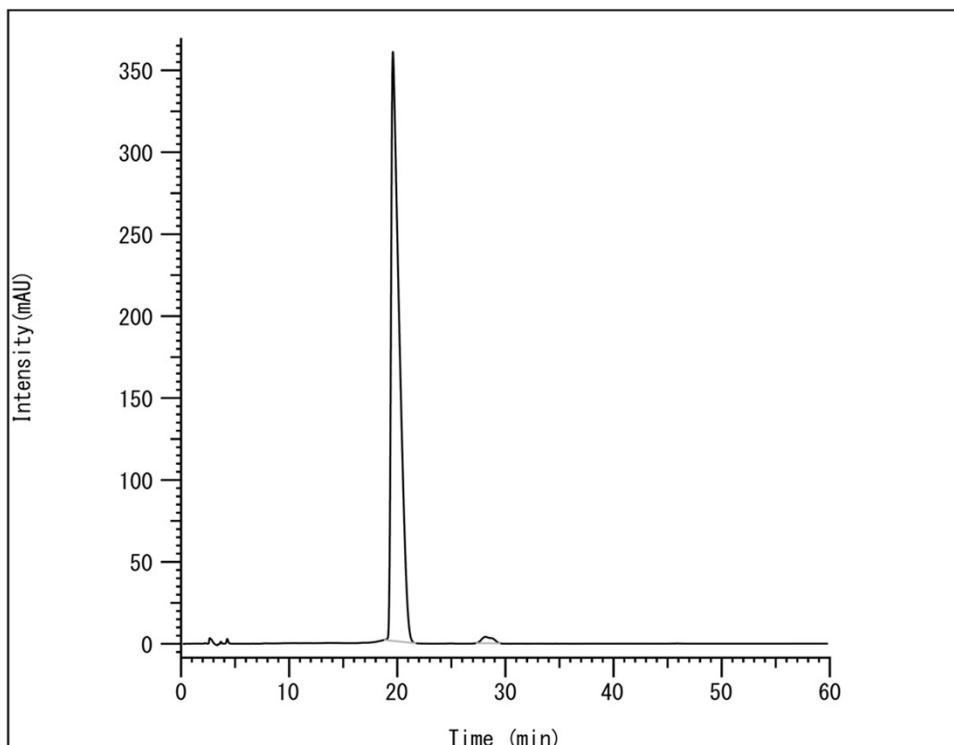
Certificate of Analysis

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



$\text{C}_{33}\text{H}_{45}\text{N O}_{11}$
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 ($\phi 4.6 \times 150\text{mm}$)

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 the retention time of measurement :	About 3 times as long as mesaconitine, beginning after the solvent peak.	
Description			Passed
Identification (IR)			Passed
Absorbance $E_{1cm}^{1\%}$ (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 2028 (unopened)		

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