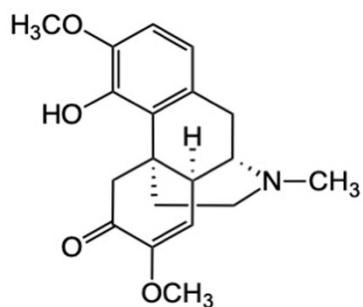


## Certificate of Analysis

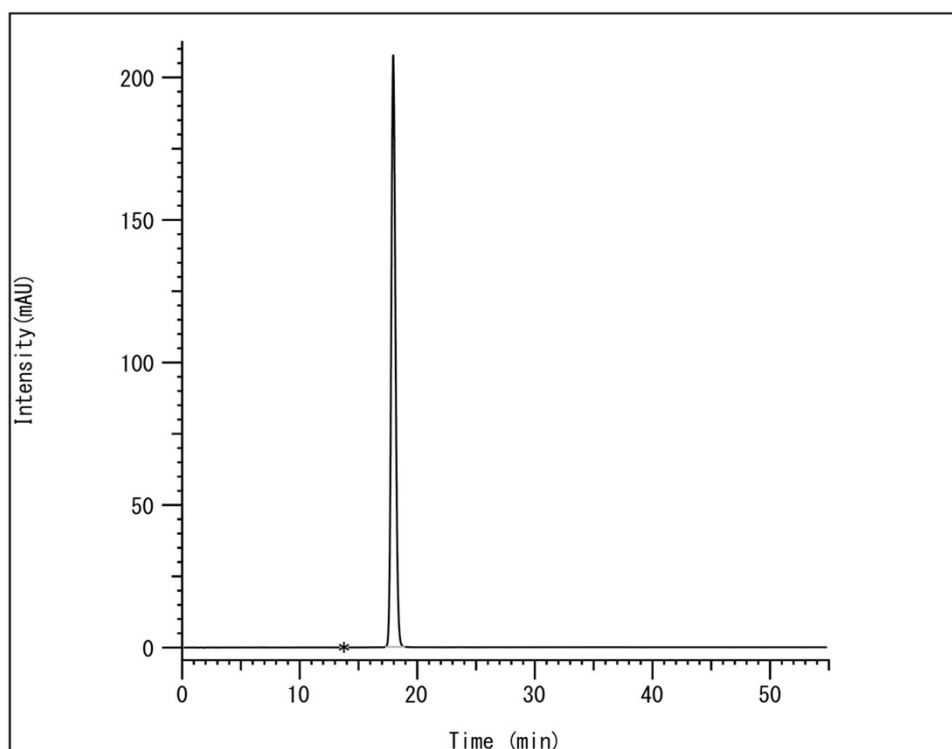
Product No.	18	Product Name	<b>Sinomenine</b>
Lot. No.	<b>182403</b>	Unit Quantity	20mg
Analysis Date	2025-02-05	Storage Conditions	Room temperature

C<sub>19</sub>H<sub>23</sub>NO<sub>4</sub>

MW : 329.39

CAS RN: 115-53-7

This product conforms to the specifications in the 18th edition of the Japanese Pharmacopoeia (Supplement II), Reagents, Test Solutions, "Sinomenine for assay" and in the 18th edition of the Japanese Pharmacopoeia, Reagents, Test Solutions, "Sinomenine for thin-layer chromatography".



Retention time	Peak area	%
13.767	3266	0.06
17.953	5213036	99.94
Total	5216302	100.00

Area percentage : Not less than 99.0%

Detector : An ultraviolet absorption photometer (261nm)

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

Purity Related substances (HPLC)	Column temperature :	A constant temperature of about 30°C.	Passed (99.9%)
	Mobile phase :	To 3 g of sodium lauryl sulfate add 350 mL of acetonitrile, shake, then add 650 mL of water and 1 mL of phosphoric acid to dissolve lauryl sulfate.	
	Flow rate :	1.0 mL per minute (the retention time of sinomenine is about 18 minutes).	
	Time span of measurement :	About 3 times as long as of the retention time of sinomenine, beginning after the solvent peak.	
Assay(qNMR)			95.1%
Unity of peak			Passed
Description			Passed
Identification (UV)			Passed
Identification (IR)			Passed
Purity Related substances (TLC)			Passed
Water (by coulometric titration)			2.7%
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		February 2028 (unopened)	

4-201, Sakurazaka, Moriyama-ku, Nagoya City, Aichi Prefecture 463-0018, Japan

TEL : +81-52-715-5601

FAX : +81-52-715-5602