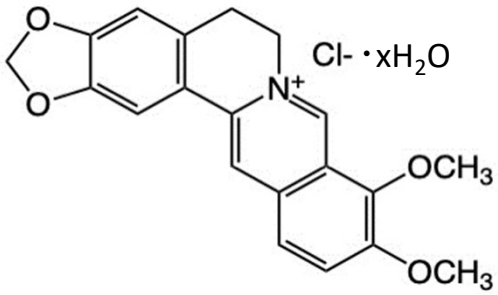
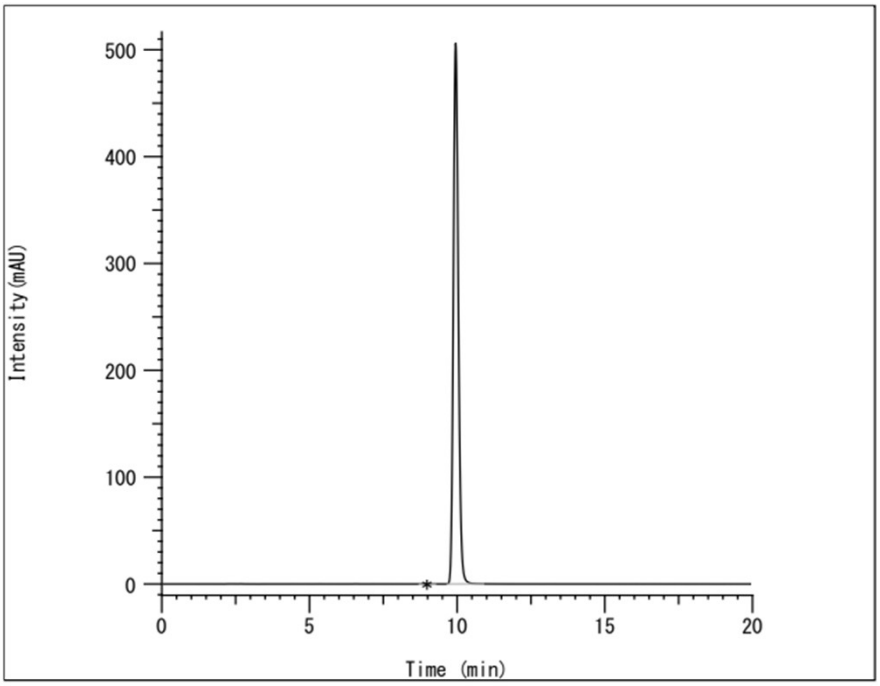
Certificate of Analysis

Product No.	35	Product Name	**Berberine chloride hydrate**
Lot. No.		**352302**	Unit Quantity	20mg
Analysis Date		2023-04-24	Storage Conditions	Room temperature



$C_{20}H_{18}ClNO_4$・xH_2O
MW：脱水物：371.81
CAS RN: 141433-60-5

This product conforms to the specifications in the 18th edition of the Japanese Pharmacopoeia , Reagents, Test Solutions, " Berberine chloride hydrate for thin-layer chromatography".



Retention time	Peak area	%
8.903	3232	0.06
9.950	5902034	99.94
Total	5905266	100.00

Area percentage	：	Not less than 99.0%
Detector	：	An ultraviolet absorption photometer（345nm）
Column	：	YMC-Pack ODS-A（ϕ4.6×250mm）
Column temperature	：	A constant temperature of about 40°C.

Purity（HPLC）	Mobile phase：Dissolve 3.4 g of potassium dihydrogen phosphate and 1.7 g of sodium lauryl sulfate in 1000 mL of a mixture of water and acetonitrile (1:1). Flow rate：Adjust so that the retention time of berberine is about 10 minutes. Time span of measurement：About twice as long as the retention time of berberine.	Passed (99.9%)
Description		Passed
Identification（UV）		Passed
Purity Related substances（TLC）		Passed
Water（by coulometric titration）		2.6%
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 2027 (unopened)	

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