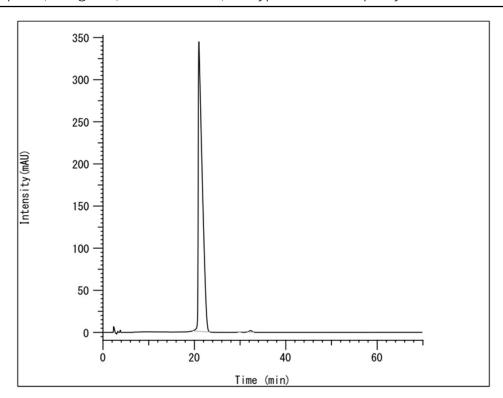
## Certificate of Analysis

Product No.	28	Product Name	Hypaconitine	
Lot. No.		282309	Unit Quantity	20mg
Analysis Date		2023-09-28	Storage Conditions	Refrigerate (≤10°C)

C<sub>33</sub> H<sub>45</sub> N O<sub>10</sub> MW: 615.71

CAS RN: 6900-87-4

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



Retension time	Peak area	%
20.980	20678232	99.60
29.900	5109	0.03
32.303	78792	0.38
Total	20762133	100.00

: Not less than 98.0% Area percentage

An ultraviolet absorption Detector

photometer (231nm)

Wakosil-II 5C18 HG Column

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

	Column temperature :	A constant temperature of about 40°C.  A mixture of phosphate				
Purity Related substances (HPLC)	Mobile phase	<ul><li>buffer solution for</li><li>processed aconite root</li><li>and tetrahydrofuran</li><li>(9:1).</li></ul>	Passed (99.6%)			
	Flow rate	Adjust so that the retention time of hypaconitine is about 23 minutes. About 3 times as long as				
	Time span	of the retention time of				
	measurement	: hypaconitine, beginning				
		after the solvent peak.				
Description	Passed					
Identification (IR)	Passed					
Absorbance $E_{1cm}^{1\%}$ (23	Passed (227)					
Purity Related substar	Passed					
Water (by coulometri	Passed (0.3%)					
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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