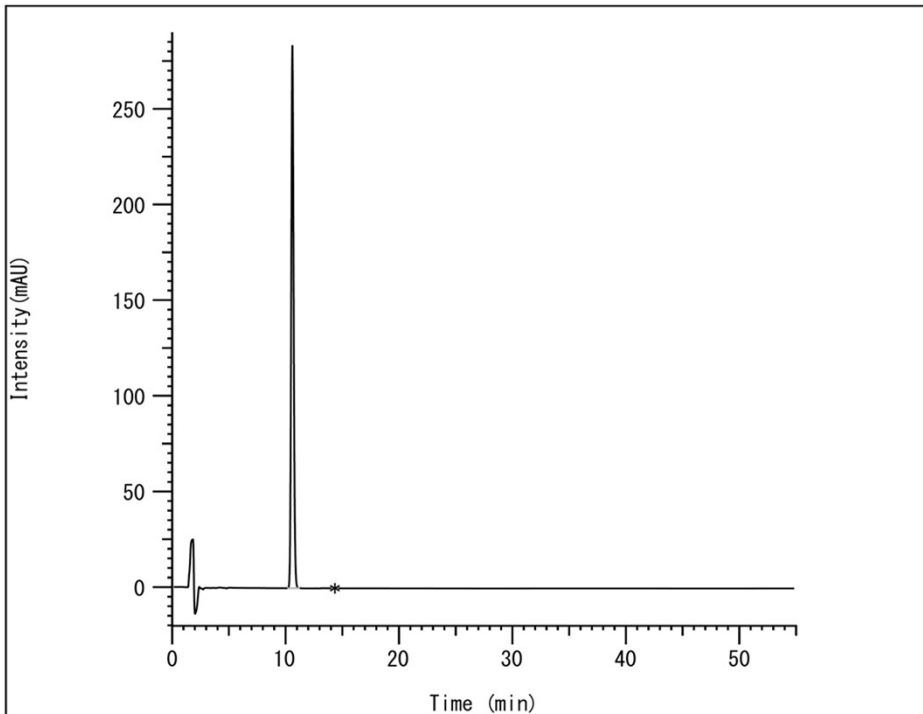


Certificate of Analysis

Product No.	02	Product Name	Atractylenolide III													
Lot. No.		022407	Unit Quantity	20mg												
Analysis Date		2025-01-28	Storage Conditions	Room temperature												
<chem>CC1=C(C2C(C1)OC(=O)C2)C3C(C(C4C(C3)C(=O)C4)C)C</chem> C₁₅H₂₀O₃ MW : 248.32 CAS RN: 73030-71-4																
This product conforms to the specifications in the 18th edition of the Japanese Pharmacopoeia (Supplement II), Reagents, Test Solutions, "Atractylenolide III for assay" and in the 18th edition of the Japanese Pharmacopoeia , Reagents, Test Solutions, "Atractylenolide III for thin-layer chromatography".																
 <table><tr><th>Retention time</th><th>Peak area</th><th>%</th></tr><tr><td>10.600</td><td>4199036</td><td>99.95</td></tr><tr><td>14.323</td><td>2193</td><td>0.05</td></tr><tr><td>Total</td><td>4201229</td><td>100.00</td></tr></table>					Retention time	Peak area	%	10.600	4199036	99.95	14.323	2193	0.05	Total	4201229	100.00
Retention time	Peak area	%														
10.600	4199036	99.95														
14.323	2193	0.05														
Total	4201229	100.00														
		Area percentage :	Not less than 99.0%													
		Detector :	An ultraviolet absorption photometer (220nm)													

Purity Related substances (HPLC)	Column	: Wakosil- II 5C18 HG (ϕ 4.6 × 150mm)	Passed (99.9%)
	Column temperature	A constant temperature of about 40°C. A mixture of water,	
	Mobile phase	: acetonitrile and phosphoric acid(550 : 450 : 1) 1.0 mL per minute (the	
	Flow rate	: retention time of atractylenolide III is about 10 minutes). About 5 times as long as	
	Time span measurement	of the retention time of : Atractylenolide II, beginning after the solvent peak.	
Assay (Purity value by quantitative NMR)			99.6%
Unity of peak			Passed
Description			Passed
Absorbance $E_{1\text{cm}}^{1\%}$ (219nm) : 446 ~ 481			Passed (447)
Identification (UV)			Passed
Identification (IR)			Passed
Purity Related substances (TLC)			Passed
Water (by coulometric titration)			0.7%
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. The expiration date will be set sequentially based on the results of stability testing.			

IWASHIMA YAKUHIN Co., Ltd.

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

TEL : +81-52-715-5601

FAX : +81-52-715-5602