

CERTIFICATE OF ANALYSIS

Paclitaxel, >99.5%

CAT. NO. orb61089

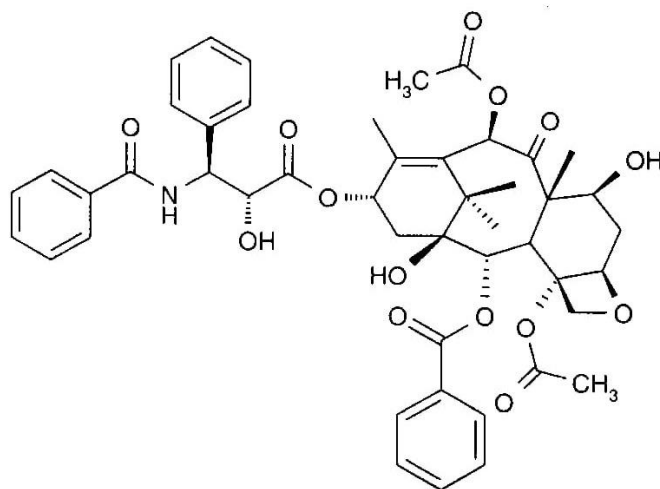
FORMULA C₄₇H₅₁NO₁₄

M.W. 853.91

CAS NO. [33069-62-4]

STORAGE Store at or below -20 °C

SOLUBILITY Soluble in DMSO at 200 mg/mL; soluble in ethanol at 40 mg/mL; very poorly soluble in water; maximum solubility in plain water is estimated to be about 10-20 μM; buffers, serum, or other additives may increase or decrease the aqueous solubility.



ANALYTICAL DATA

FORM Crystalline solid; granular or powder

COLOR White

HPLC PURITY >99.5% (see attached chromatogram)

TLC PURITY >99.5% (see attached chromatogram)

MELTING POINT 207-211 °C

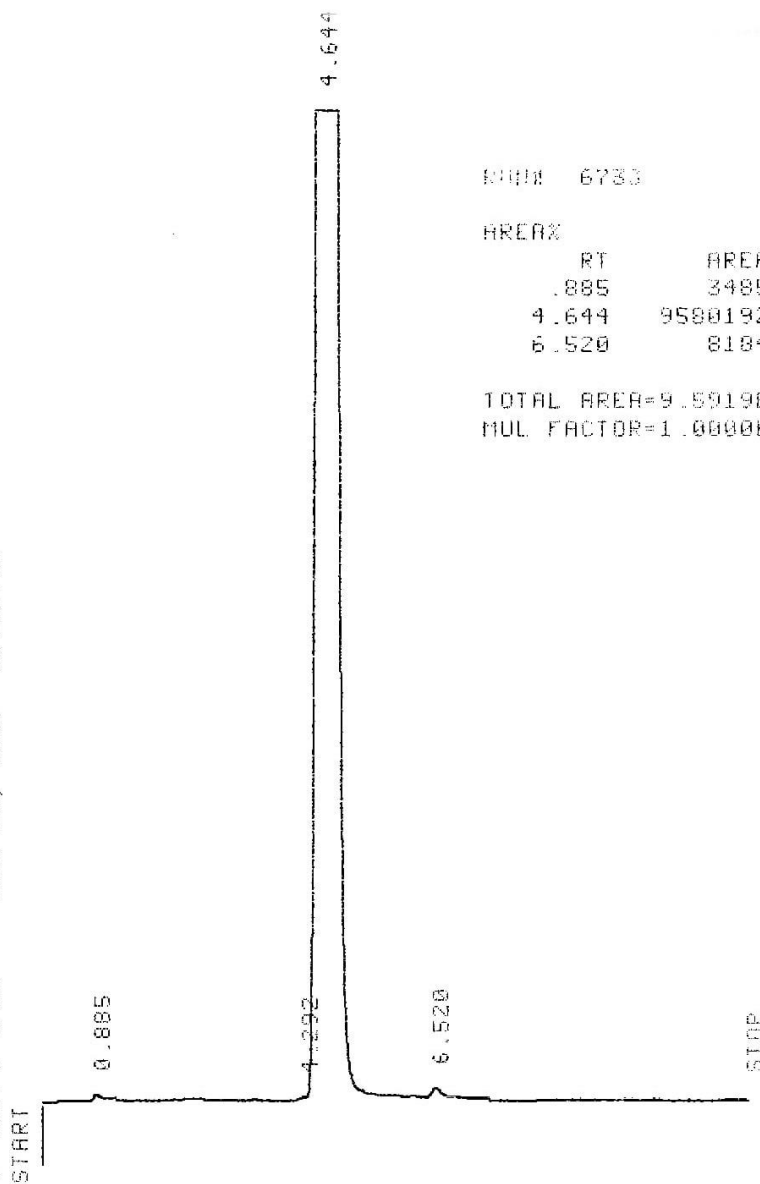
PROTON NMR (see attached spectrum)

ELEMENTAL ANALYSIS For: C₄₇H₅₁NO₁₄•0.6H₂O:

	<u>Calculated</u>	<u>Found</u>
C	65.28%	65.28%
H	6.08%	6.07%
N	1.62%	1.70%

*CAT. No. P-9600 PACLITAXEL LOT No. ASM-120

* RUN # 6733 MAR 16, 2017 16:12:35



RUN# 6733 DATE: MAR 16, 2017 16:12:35

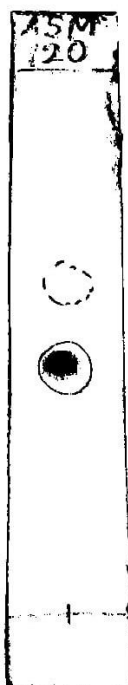
AREAS

RT	AREA	TYPE	WIDTH	AREA%
0.885	3485	UV	.152	.03633
4.644	9580192	PB	.204	99.87837
6.520	8184	PV	.192	.08532

TOTAL AREA=9.5919E+06

MUL FACTOR=1.0000E+00

HPLC: C₁₈ Column, 4.6 mm x 30 cm
Acetonitrile/Methanol/Water 46/22/32
2 mL/min
UV₂₅₄ Detection



- TLC: 60 Å silica gel plates with fluorescent indicator
- Develop with Hexane/Acetone 40/60
- Visualize via UV fluorescence quenching
- Also visualize by spraying with Vanillin/H₂SO₄/Methanol 2/1/97 and heating to 110°C for 5 minutes.

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