



Specification

Paclitaxel Semi-synthetic USP

Catalog Number:	PA1005
CAS Number:	33069-62-4
Source:	Semi-synthetic
Molecular Formula:	C ₄₇ H ₅₁ NO ₁₄
Molecular Weight:	853.91
Storage:	≤ -30°C
Retest Period:	Two years from the date of manufacture

Test	Specification
Appearance	White crystalline powder
Assay	97.0 – 102.0%
Identification FTIR HPLC	To match reference spectrum Retention time of major peak corresponds to the standard
Specific Rotation	-49.0° to -55.0°
Related Compounds	
Baccatin III	≤ 0.2%
10-Deacetylpaclitaxel	≤ 0.5%
Photodegradant	≤ 0.2%
10-Debenzoylbaccatin III	≤ 0.1%
2-Debenzoylpaclitaxel-2-pentenoate	≤ 0.7%
10,13-Bissidechainpaclitaxel	≤ 0.5%
7-Acetylpaclitaxel	≤ 0.6%
7-Tes-paclitaxel	≤ 0.3%
13-Tes-baccatin III	≤ 0.1%
7-Epipaclitaxel	≤ 0.5%
Others	≤ 0.1% (each)
Total	≤ 2.0%
Organic Volatile Impurities	
Acetone	≤ 5000ppm
Hexane	≤ 290ppm
Moisture	≤ 4%
Heavy Metals	≤ 0.002%

Approved:

John Grubb, PhD
Gojira Fine Chemicals
Quality Manager
Tel: 440-252-5397, Fax: 888-211-5523
docsupport@gojiraafc.com

Date: September 12, 2018