Application Report

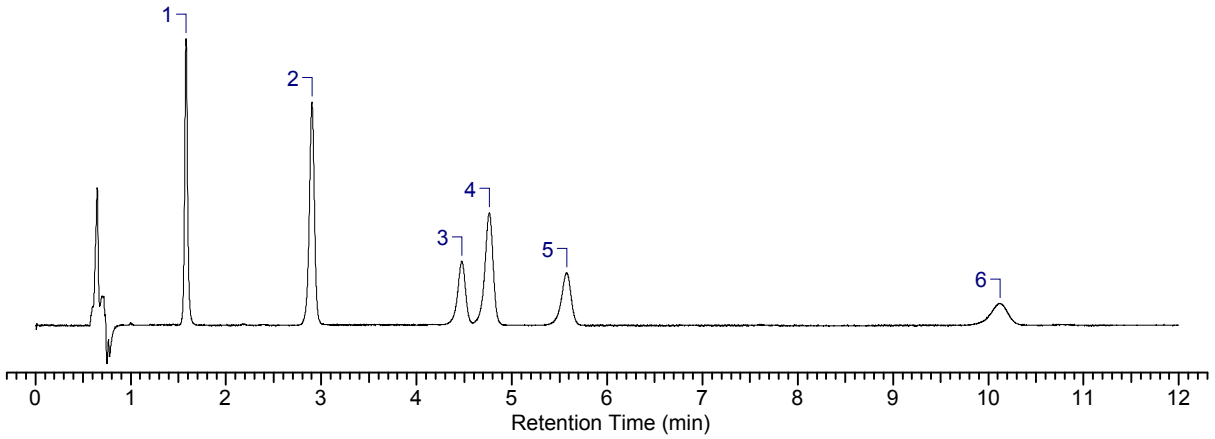
Analysis of Taxols Using Ascentis Express F5

This application demonstrates the suitability of Ascentis Express F5 for the efficient separation of taxols.

Bonded Phase	pentafluorophenylpropyl
Column Name	Ascentis Express F5
Instrument Name	Jasco X-LC

Key Words

Baccatin III, 27548-93-2, B8154, Cephalomannine, 71610-00-9, C4991, Paclitaxel, 33069-62-4, T-1912, 10-Deacetylpaclitaxel, 10-Deacetyl-7-epipaclitaxel, 7-Epipaclitaxel, Ascentis Express F5, 53569-U



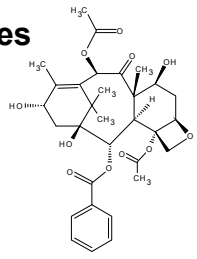
Conditions

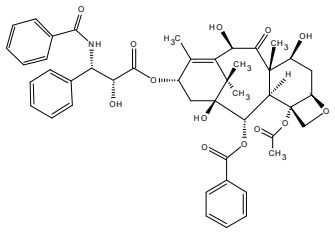
column:	Ascentis Express F5, 10 cm x 2.1 mm I.D., 2.7 µm particles (53569-U)
mobile phase A:	water
mobile phase B:	acetonitrile
mixing proportions:	A:B = 60:40
flow rate:	0.3 mL/min.
pressure:	194 bar (2820 psi)
temp.:	30 °C
det.:	UV 227 nm
injection:	2 µL
sample:	25 µg /mL in 70:30, water: methanol

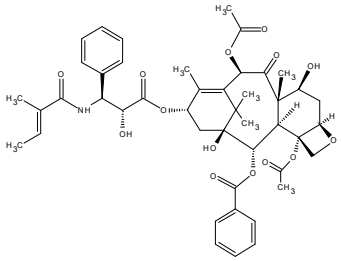
Peak IDs

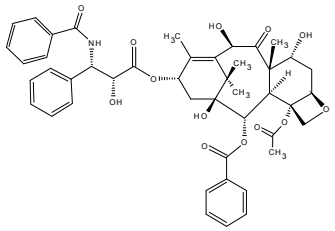
No.	Name	tR
1	Baccatin III	1.6
2	10-Deacetylpaclitaxel	2.9
3	Cephalomannine	4.5
4	10-Deacetyl-7-epipaclitaxel	4.8
5	Paclitaxel	5.6
6	7-Epipaclitaxel	10.1

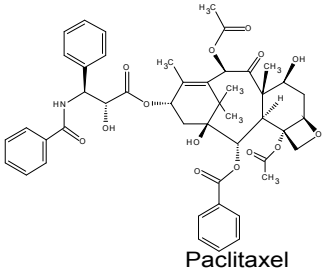
Structures

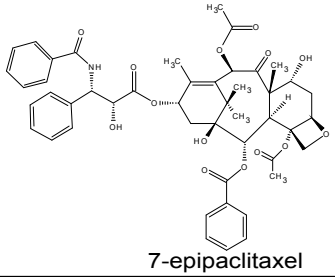

Baccatin III


10-deacetylpaclitaxel


Cephalomannine


10-deacetyl-7-epipaclitaxel


Paclitaxel


7-epipaclitaxel