

# Tools for Pharmaceutical Analysis

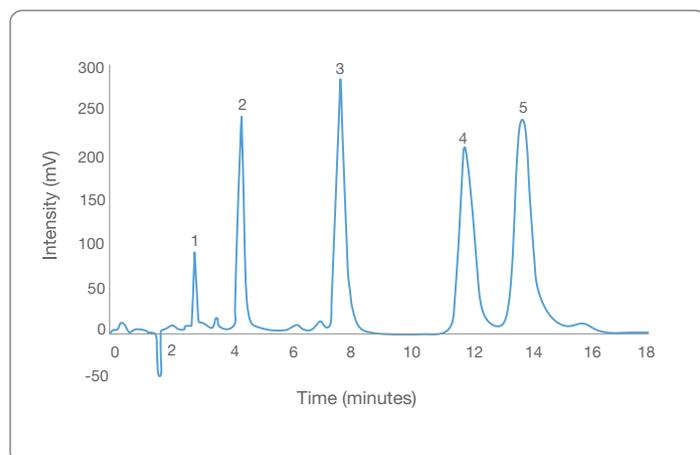
Pharmaceutical/biopharmaceutical manufacturing takes many aspects into consideration but producing the highest purity product quickly and accurately are always top of mind. Hamilton® is committed to supplying products that scientists can rely on whether it's manufacturing for cell therapy, monoclonal antibody, vaccine, gene therapy, or analysis and QC.

Hamilton® products from pH sensors, dissolved oxygen, cell density measuring, to all liquid handling products like syringes and HPLC columns play a critical role in the success of each step in these processes.

*Trust Hamilton's long history of expertly manufacturing scientific products that deliver trust in your work and confidence in your results.*

## Isolation and Analysis of Paclitaxel

Column	PRP-1, 150 x 4.1 mm I.D., 5 µm
Mobile Phase	[A] 20 mM Potassium citrate, pH 6.0; [B] Acetonitrile (50:50 A:B)
Flow rate	0.75 mL/min
Column temp.	35 °C
Detector	UV, 230 nm
Injection	5.0 µL



- Sample Preparation
- Monoclonal Antibody Manufacturing
- R&D
- Vaccine Manufacturing
- Pharma Analysis
- Gene Therapy Manufacturing
- Quality Control
- Formulation
- Vaccine Manufacturing
- Blood Plasma Fractionation

## Peaks in Chromatogram

Peak I.D.	Compound Name
1	10-Deacetylbaccatin III
2	Baccatin III
3	Docetaxel
4	Paclitaxel
5	Paclitaxel Impurity C

## HPLC Autosampler Syringes

Hamilton® maintains a large catalog of replacement syringes for the most popular HPLC autosamplers. The syringes are handmade with an unmatched attention to detail. The manufacturing process and quality assurance procedures ensure that every syringe manufactured will provide superior accuracy and precision as well as cycle life.

P/N	Description
28635-U	Hamilton® 1710N syringe, volume 100 µL, needle size 22 ga (blunt tip), needle L 51 mm (2 in.)
26280-U	Hamilton® SampleLock syringe, 1705SL, volume 50 µL, needle size 22s ga (bevel tip), needle L 51 mm (2 in.)
28633-U	Hamilton® 1702N syringe, volume 25 µL, needle size 22s ga (blunt tip), needle L 51 mm (2 in.)

## Gastight Laboratory Syringes

Gas tight syringes are ideal for dispensing both liquids and gases. These syringes have a precision-machined [PTFE plunger tip](#) which creates a leak-free seal and are ideal for heterogeneous samples.

P/N	Description
20972	10 µL Gastight Syringe Model 1701 N, Cemented Needle, 26s gauge, 2 in., point style 2
20687	50 µL Gastight Syringe Model 1705 N, Cemented Needle, 22s gauge, 2 in, point style 2
20688	100 µL Gastight Syringe Model 1710 N, Cemented Needle, 22s gauge, 2 in, point style 2
20689	250 µL Gastight Syringe Model 1725 LTN, Cemented Needle, 22s gauge, 2 in, point style 2
20693	10 mL Gastight Syringe Model 1010 LTN, Cemented Needle, 22 gauge, 2 in, point style 2

## Polymer Stationary Phase HPLC Columns

Hamilton® offers HPLC columns designed for reversed-phase, anion exchange, cation exchange, and ion exclusion separations. With an operating range of 0-14 in the pH range, biological samples can be ionized no matter the isoelectric point.

P/N	Description
82017-U	Hamilton® PRP-X100 HPLC Column, 15 cm x 4.6 mm I.D., 5 µm
50658-U	Hamilton® PRP-C18 HPLC Column, 5 cm x 2.1 mm I.D., 5 µm
82013-U	Hamilton® PRP-1 HPLC Column, 15 cm x 4.1 mm I.D., 5 µm
82031-U	Hamilton® HC-75 HPLC Column, 25 cm x 4.1 mm I.D., 9 µm
82027-U	Hamilton® PRP-X200 HPLC Column, 25 cm x 4.1 mm I.D., 10 µm
82015-U	Hamilton® PRP-X300 HPLC Column, 25 cm x 4.1 mm I.D., 7 µm

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