

CTC PAL® System LC PAL / PAL LC-xt

X-Type Liquid Chromatography Autosampler Syringes

Product Datasheet



X-Type Syringes

Hamilton, together with CTC Analytics, designed the X-Type syringe for use with PAL System liquid chromatography (LC) autosamplers. The syringes feature near zero carryover and a long-lasting plunger tip to meet the requirements of sensitive, high-throughput LC applications. The glass barrel of the syringe is polished by a special coating for inertness and enhanced lifetime. The coated needle reduces sample adsorption and eliminates metal contact with the sample. The X-Type syringe is designed for sensitive LC samples such as proteins, peptides, phospholipids, or smaller amines.

Benefits of Choosing the X-Type Syringe for Your LC Analyses:

- Inert fluid path
- Near zero carryover
- No sample adsorption
- Increased lifetime
- Full instrument compatibility



X-Type Syringes for PAL System LC Autosamplers

Deactivated Needle and Barrel

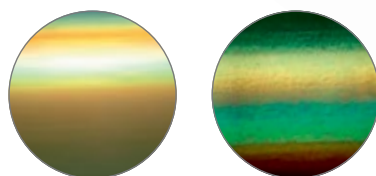
- Eliminates contact between samples and metal components
- Prevents sample adsorption on inner surface of the barrel
- Extremely smooth surface for low friction and increased plunger lifetime

Inert PTFE-Polymer Plunger Tip

- High mechanical stability for increased syringe lifetime
- Highly inert plunger tip material compatible with organics and full pH range buffer solutions

Unique Needle Design

- Needle attached directly to the barrel
- No glue or cement in fluid path
- Improved design for limited carryover



X-Type / 100x Zoom
Coated glass

Uncoated glass

Microscopic view confirms the very smooth inner surface of the coated X-Type glass barrel

Ordering Information

Volume	Hamilton P/N	Syringe Type	Description	Gauge	Point Style
25 µL	204475	Gastight	Model 1702 CTC SYR (7.9 mm)	22s	3
50 µL	204379	Gastight	Model 1705 CTC SYR (7.9 mm)	22s	3
100 µL	204400	Gastight	Model 1710 CTC SYR (6.6 mm)	22	3
100 µL	204452	Gastight	Model 1710 CTC SYR (6.6 mm)	22s	3

*All syringes listed feature a Fixed Needle (FN) needle termination.



For more detailed information on X-Type Syringes or to order, visit

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