

Syringes | eVol[®] XR

Every one an expert

eVol[®] XR digital analytical syringe is the coupling of two precision devices: a digitally controlled electronic drive and an XCHANGE[®] enabled analytical syringe.

eVol XR syringes are easily and quickly changed allowing them to be dedicated to individual liquids or methods to prevent possible cross contamination of reagents.

Features and benefits

- Syringes compatible for use with eVol XR.
- Suitable for use with volatile samples.
- Variable speed of operation.
- Easily calibrated and calibration factors saved for each syringe, enabling laboratories to comply with stringent global laboratory standards (e.g. GLP, GMP, FDA).
- Programmable and able to store a laboratory workflow (up to 98 steps).
- Password protection options enabling standardization of work processes.
- Reduces the need for serial dilutions.

Recommended applications

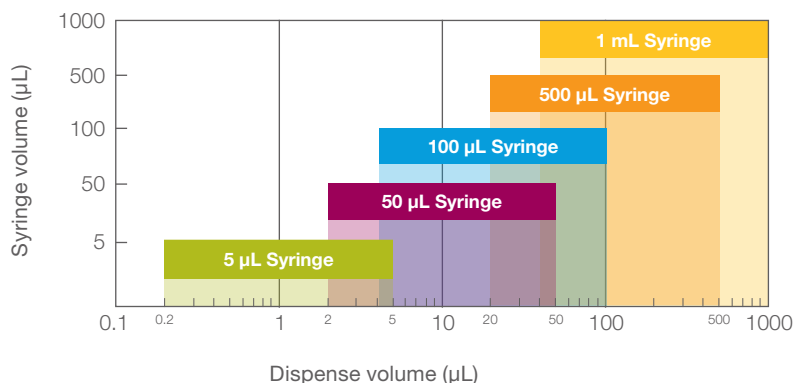
- Preparation and addition of standards.
- Precise dispensing of aqueous and non-aqueous liquids.
- TLC spotting.
- Micro titrations.
- GC and LC instrument injections.
- NMR sample preparation.
- MEPS[®]

Product specifications

- 5 μ L eVol XR syringes available with 50 mm and 115 mm long needles.
- 50 μ L eVol XR syringes available with 50 mm, 115 mm, and 180 mm long needles.
- 100 μ L eVol XR syringes available with a 50 mm long needle.
- 500 μ L eVol XR syringes available with 50 mm, 70 mm, 115 mm, and 180 mm long needles.
- 1 mL eVol XR syringes available with 50 mm, and 70 mm long needles.
- 50 μ L, 100 μ L and 500 μ L removable needle eVol XR MEPS syringes available to fit MEPS BINS.



Volume range of eVol XR syringes



Accuracy of eVol XR syringes

Syringe volume	1 mL	500 µL	100 µL	50 µL	5 µL
At 100% (uncalibrated)*	± 0.7%	± 0.7%	± 0.7%	± 1.0%	± 1.0%
At 100% (calibrated)**	± 0.2%	± 0.2%	± 0.2%	± 0.2%	± 0.2%
At 10% (calibrated)***	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 1.0%

* Calibration factor of 1.0000 applied to handle.

** Syringe and handle calibrated at full volume.

*** Syringe and handle calibrated at 10% of capacity. Accuracy based on the 10% dispensed volume closest to zero position.

Note: For best results when performing repeat dispense (one aspiration followed by multiple dispense steps) use a calibration factor of 1.0000.

Precision of eVol XR syringes

Syringe volume	1 mL	500 µL	100 µL	50 µL	5 µL
At 100%	0.3%	0.3%	0.4%	0.4%	0.5%
At 10%	0.6%	0.6%	0.7%	0.8%	1.0%

For more information about this product visit www.analyticalcolumns.com or contact analytical@btconnect.com

Specifications are subject to change without notification.

The use of XCHANGE (Syringe/Tool Change System) is licensed from EPREP Pty Ltd.