TOP SYRINGE
MANUFACTURING COMPANY PRIVATE LIMITED

Manufacturer and Exporter Since 1964

LABORATORY GLASS SYRINGES



DISPOSABLE GLASS CAPILLARIES



CHROMATOGRAPHY PRODUCTS



PATHOLOGY & BLOOD SAMPLING



STORAGE GLASS VIALS & TEST TUBES



INSTRUMENT SYRINGES



MAKE IN INDIA

ISO 9001 Certified

ISO 13485 Certified

www.topsyringe.com

About Us

Top Syringe Mfg Co (P) Ltd is a leading manufacturer of glass syringes and glass tube engineering products for decades. The group, established in 1964, has the core technology base of Glass tube engineering making glass syringes from 0.25ml to 100ml and beyond.

The company has 2 manufacturing Plants in India; one is in Dahisar, Mumbai & the other one is at Alandi, Pune. These facilities meet all the regulatory / quality guidelines for products manufactured. Products so manufactured are regularly exported across the globe to over 50 countries including regulatory markets.

Within our world class facility we do manufacture our core product Glass Syringes which are used for various applications like in Laboratory, Medical, Industrial, Veterinary, etc. The facility also has fairly big share in production of Chromatography Consumables under the brand Colpak® like Auto Sampler, Head Space Vials, caps & Septas with our regular on-going production of Branded & OEM job work for Laboratory Glass ware like Test Tubes, Culture Tubes, Glass Micro Capillaries etc. The facility has its own injection molding machines for the screw caps and other plastic products. The Facility is also house to its own rubber mixing milland processing of the liners & septas.

We have also indigenously developed & established our presence into the manufacturing of the special class of Gas Tight Syringes & Microliter Syringes (Upcoming).

We are in the process of launching our range of Liquid Handling Products like air displacement pipettes, bottle top dispensers, battery operated dispensers, etc.

We are well supported by Our E-commerce team which forms the backbone for our global presence across the world for quality scientific glass products. We have web support for 13+ languages across the world with our E-commerce partners like Amazon, Alibaba, Indiamart, etc. who are helping us distribute our products across the globe.

Our expertise and world class technology developed over the years in Glass tube engineering is the foundation of our quality reputation. Our skill mix with art of glass working, enables us to convert the glass products that command respect from satisfied users worldwide.

This catalog is dedicated to our range of Laboratory Glass Syringes. Our other group companies manufactures glass pharmaceutical packaging product and laboratory heating and cooling equipments.



We Supply on OEM term as well

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TRÜTH Interchangeable Glass Syringes

Ideal for laboratory liquid handling of various liquids including Plastic Sensitive Materials, hazardous chemicals, Adjuvant solutions, petroleum derivatives, glues, synthetic dyes, perfumes, essential oils and organic chemicals.

Features

- Glass Barrels & Pistons are made from borosilicate glass provide protection against thermal shock.
- Graduation marks are permanently fused into a glass barrel
- Luer locks are Nickel-crome plated brass or Stainless Steel (SS316) as per ISO 594/1; 595/2
- Precision shrinking ensures improved leak free smooth operation
- Outstanding Chemical Resistance being made of 3.3 Borosilicate Glass
- Coloured plunger facilitates dosage measurements
- We supply in private label terms as well
- Inert Liquid Path, No 'O' ring
- Autoclavable at 121°C

Sizes : 1ml to 100ml

Termination	Catalog	Volume	Graduation	Packing
Center all Glass Tip (CT)	01-03-01-03	1ml	0.05ml	10pcs
	01-05-01-04	2ml	0.1ml	10pcs
	01-07-01-04	3ml	0.1ml	10pcs
	01-08-01-05	5ml	0.2ml	10pcs
	01-09-01-05	10ml	0.2ml	10pcs
	01-10-01-06	20ml	0.5ml	10pcs
	01-11-01-07	30ml	1ml	1pc
	01-13-01-08	50ml	2ml	1pc
	01-15-01-08	100ml	2ml	1pc

Description	Catalog	Volume	Graduation	Packing
Metal Luer Lock Tip (CL)	01-03-02-03	1ml	0.05ml	10pcs
	01-05-02-04	2ml	0.1ml	10pcs
	01-07-02-04	3ml	0.1ml	10pcs
	01-08-02-05	5ml	0.2ml	10pcs
	01-09-02-05	10ml	0.2ml	10pcs
	01-10-02-06	20ml	0.5ml	10pcs
	01-11-02-07	30ml	1ml	1pc
	01-13-02-08	50ml	2ml	1pc
	01-15-02-08	100ml	2ml	1pc

Description	Catalog	Volume	Graduation	Packing
Stainless Steel (Ss316) Luer Lock Tip (SS-CL)	01-03-75-03	1ml	0.05ml	10pcs
	01-05-75-04	2ml	0.1ml	10pcs
	01-07-75-04	3ml	0.1ml	10pcs
	01-08-75-05	5ml	0.2ml	10pcs
	01-09-75-05	10ml	0.2ml	10pcs
	01-10-75-06	20ml	0.5ml	10pcs
	01-11-75-07	30ml	1ml	1pc
	01-13-75-08	50ml	2ml	1pc
	01-15-75-08	100ml	2ml	1pc

Description	Catalog	Volume	Graduation	Packing
Metal Luer Tip (MT)	01-03-03-03	1ml	0.05ml	10pcs
	01-05-03-04	2ml	0.1ml	10pcs
	01-07-03-04	3ml	0.1ml	10pcs
	01-08-03-05	5ml	0.2ml	10pcs
	01-09-03-05	10ml	0.2ml	10pcs
	01-10-03-06	20ml	0.5ml	10pcs
	01-11-03-07	30ml	1ml	1pc
	01-13-03-08	50ml	2ml	1pc
	01-15-03-08	100ml	2ml	1pc



Nozzle Types



CT CL SS-CL MT

GLASS SYRINGES

TRÜTH™ PLS Calibrated Glass Syringes

with Individual Calibration Certificate (Class A as per ISO 4788 & ISO 8655-9)

TRÜTH Calibrated Glass Syringes (PLS) are Certified Volumetric measuring Instruments as per Class A ISO 4788. The syringes offer a jerk free experience while collecting and dispensing accurate liquid doses through a 100% inert liquid path of borosilicate glass that also withstands higher pressures.

Ideal for laboratory liquid handling of various liquids including Plastic Sensitive Materials, hazardous chemicals, Adjuvant solutions, petroleum derivatives, glues, synthetic dyes, perfumes, essential oils and organic chemicals.

Recommended for your Good Laboratory Practices (GLP) / GMP Certified facility at quality control, quality assurance etc.

Features

- Class of accuracy is Class A as per ISO 4788
- Permissible error of + 1% & 0.5%
- Autoclavable at 121°C, can withstand upto 200°C
- Outstanding Chemical Resistance being made of 3.3 Borosilicate Glass
- Extremely air tightness and can hold a particular pressure.
- 100% jerk free movement
- Fine graduation markings (up to 0.01ml)
- Glass Barrels & Pistons are made from borosilicate Glass
- Graduation marks are permanently fused into a glass barrel
- Inert Liquid Path, No 'O' Ring
- Calibration Certificate with Each Syringe
- Suitable for all types of needle as per ISO594/1;595/2
- Luer locks are Nickel-crome plated brass or Stainless Steel (Ss316) as per ISO 594/1; 595/2

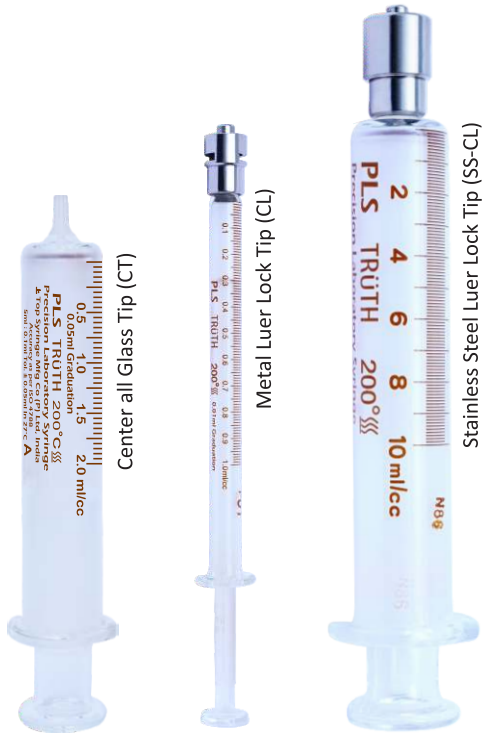
Applications

- Plastic Sensitive Material & Adjuvant Solution
- Organic Chemicals
- Perfumes Essential Oils
- Collate Collection From Dissolution Apparatus
- Pharma, API Chemical, QC,QA, R & D Labs
- Sensitive \ Hazardous Chemicals

Description	Catalog	Volume	Graduation	Packing	Max Pressure Rating Bars | PSIG
Center all Glass Tip (CT)	04-01-01-01	0.25 ml	0.01 ml	10pcs	–
	04-02-01-01	0.5 ml	0.01 ml	10pcs	–
	04-04-01-01	1 ml	0.01 ml	10pcs	–
	03-06-01-03	2 ml	0.05 ml	10pcs	3.00 43.50
	03-08-01-04	5 ml	0.1 ml	10pcs	3.00 43.50
	03-09-01-04	10 ml	0.1 ml	10pcs	2.00 29.00
	03-10-01-06	20 ml	0.5 ml	10pcs	2.00 29.00
	03-13-01-06	50 ml	0.5 ml	1 pc	1.50 21.76
	03-15-01-06	100 ml	0.5 ml	1 pc	1.50 21.76

Description	Catalog	Volume	Graduation	Packing	Max Pressure Rating Bars | PSIG
Metal Luer Lock Tip (CL) (Nickel Chrome Plated Brass)	04-04-02-01	1 ml	0.01 ml	10pcs	–
	03-06-02-03	2 ml	0.05 ml	10pcs	3.00 43.50
	03-08-02-04	5 ml	0.1 ml	10pcs	3.00 43.50
	03-09-02-04	10 ml	0.1 ml	10pcs	2.00 29.00
	03-10-02-06	20 ml	0.5 ml	1pc	2.00 29.00
	03-13-02-06	50 ml	0.5 ml	1pc	1.50 21.76
	03-15-02-06	100 ml	0.5 ml	1pc	1.50 21.76

Description	Catalog	Volume	Graduation	Packing	Max Pressure Rating Bars | PSIG
Stainless Steel (SS 316) Luer Lock Tip (SS-CL)	04-04-75-01	1 ml	0.01 ml	10pcs	–
	03-06-75-03	2 ml	0.05 ml	10pcs	3.00 43.50
	03-08-75-04	5 ml	0.1 ml	10pcs	3.00 43.50
	03-09-75-04	10 ml	0.1 ml	10pcs	2.00 29.00
	03-10-75-06	20 ml	0.5 ml	1pc	2.00 29.00
	03-13-75-06	50 ml	0.5 ml	1pc	1.50 21.76
	03-15-75-06	100 ml	0.5 ml	1pc	1.50 21.76



Nozzle Types



GLASS SYRINGES

TRÜTH™ Jumbo Super Syringe

TRÜTH Jumbo Super Syringe is a large volume Gastight syringe. These syringes are ideal for dispensing volumes from 500mL up to 2 L. Jumbo Super Syringes are the only syringes that are made with an acrylic barrel instead of glass.

Jumbo Super Syringe is a Gas tight with higher capacity syringe. These super Syringes are applicable for dispensing large volumes from 500mL up to 2 L. Jumbo Super Syringes are unlike glass syringes made up of acrylic barrel instead of glass barrel.

The Jumbo Super Syringe can be used for a various applications like gas sampling, preparing gas standards, air pollution sampling, sample testing of EPA, calibration of reservoirs, spirometers, and pulmonary research. The Jumbo Super Syringe is available with PTFE luer lock

The super syringe is a large volume clear acrylic syringe, is available in volume from 0.5 litre to 2.0 litres for a many of applications including gas sampling, preparing gas standards, air pollution sampling, EPA Sample testing, calibration of reservoirs, pneumatographs, and pulmonatory research. The super syringe is available with PTFE Luer lock adapter.

The super syringe is accurate to +/- 1% of its total volume. The syringe is pressure rated to 30psig (2.1 Bar) with a maximum temperature range of 50°C (122°F) The PTFE luer lock (TLL) model accepts a variety of stainless steel needles, fittings, valves, adapters .

Catalog	Descrption	Needle Hub
S - 500	500 ml PTFE Luer Lock Syringe	Metal
S - 1000	1.0 Liter PTFE Luer Lock Metal Syringe	Metal
S - 1500	1.5 Liter PTFE Luer Lock Metal Syringe	Metal
S- 2000	2.0 Liter PTFE Luer Lock Metal Syringe	Metal



Solvent Syringe - High Repeatability

- Solvent syringe for loading solvent into OCMA Oil Content Analyser
- Spring action, adjustable 0-20ml for high precision and high repeatability.
- For measurement of Oil in wastewater oil content analyzer OCMA-500
- For measurement of residual oil on components oil content analyzer OCMA-500

Standard type (with Stopper)

Catalog	Descrption	Sizes	Pack
35-10-02-06	PLS Glass Syringe	20 ml	1 Pc



TRÜTH™ Gas Tight Syringes

Manual Syringe (as per ISO 8655-9)

Truth gas tight syringes are ideal for dispensing both liquids and gases. They have a precision-machined PTFE plunger tip which creates a leak-free seal.

With the tight fit, the tip essentially wipes the interior of the syringe barrel free of sample. Barrels made of 3.3 expansion glass. All syringes are precision within 1%

Volume		2.5ml	5ml	10ml	25ml
Scale length, mm		60	60	60	60
Total scale divisions		100	100	100	100
Major graduations, mL		0.5	0.5	1.0	2.5
Minor graduations, mL		0.1	0.1	0.2	0.5
Sub-Minor graduations, mL		0.05	0.05	0.1	0.25
Maximum tempreature	°C	115	115	115	115
	°F	239	239	239	239
Minimum tempreature	°C	10	10	10	10
	°F	50	50	50	50
Maximum Pressure rating	bars	14	14	14	7
	psig	200	200	200	100



Individual Calibration Certificate available on request.

Luer Tip (LT)

Termination	Volume	Reference	Catalog
Luer Tip (LT)	2.5ml	81401	42-24-01-67
	5ml	81501	42-08-01-73
	10ml	81601	42-09-01-74
	25ml	-	42-30-01-75

PTFE Luer Lock (TLL-X)

Termination	Volume	Reference	Catalog
PTFE Luer Lock (TLL-X)	2.5ml	81420	42-24-65-67
	5ml	81520	42-08-65-73
	10ml	81620	42-09-65-74
	25ml	82520	42-30-65-75

Fixed Needle Beveled (LTFN)

Termination	Volume	Reference	Catalog
Fixed Needle Beveled (22G) (LTFN)	2.5ml	81417	42-24-66-67
	5ml	81517	42-08-66-73
	10ml	81617	42-09-66-74

Nozzle Types



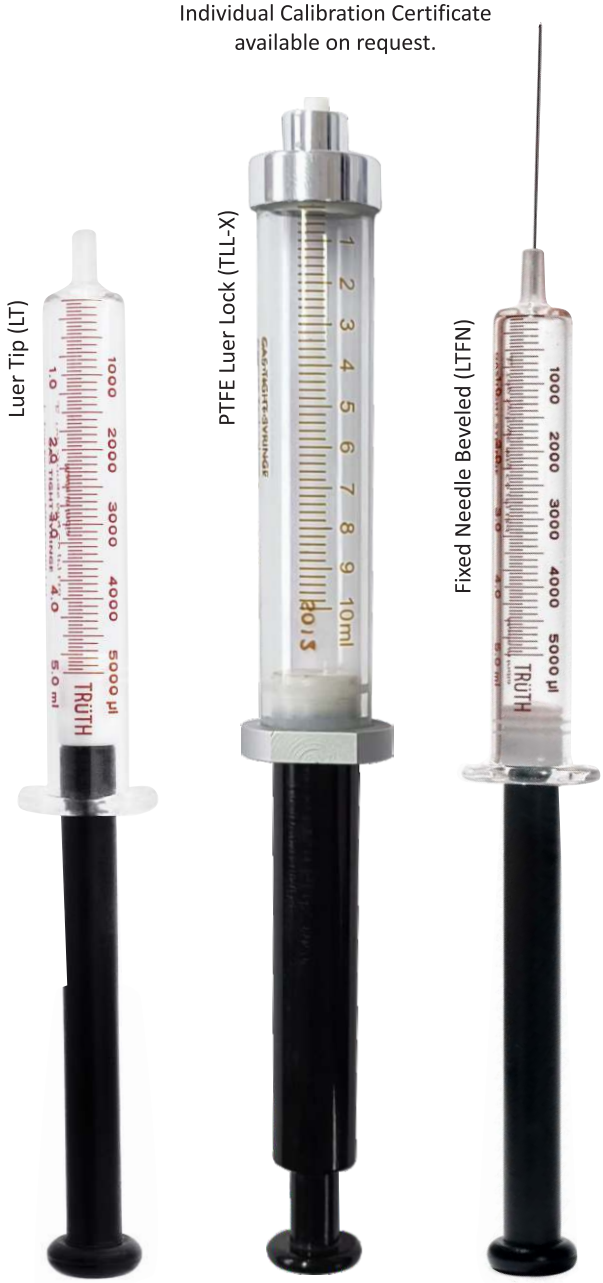
LT



TLL-X



LTFN



TRÜTH™ Gas Tight Syringes

Instrument Syringes

- For Parallel Sampling
- Withdrawal & Dosage in Multi Syringe Pumps
- For Dissolution Pumps, Hematology Analysers, Tritrators, Flow Chemistry Equipments, Syringe Pump etc.
- Wetted Materials: 3.3 Borosilicate Glass, PTFE, Stainless Steel
- Accuracy / Precision ± 1% of total volume
- Pressure Upto 200 PSI
- Calibration Certificate on Request

Volume		2.5ml	5ml	10ml	25ml
Scale length, mm		60	60	60	60
Total scale divisions		100	100	100	100
Major graduations, mL		0.25	0.5	1.0	2.5
Minor graduations, mL		0.25	0.1	0.2	0.5
Sub-Minor graduations, mL		0.025	0.05	0.1	0.25
Maximum tempreature	°C	115	115	115	115
	°F	239	239	239	239
Minimum tempreature	°C	10	10	10	10
	°F	50	50	50	50
Maximum Pressure rating	bars	14	14	14	7
	psig	200	200	200	100

For Precision Dosing in Fields of

- Chromatography
- Industrial Instruments Diagnostics
- Medical Inspection
- Biochemical Filed

V6 - 60mm Stroke Syringes

TLL-X



Catalog	Volume	Plunger Type	Termination	Reference
42-24-65-67	2.5ml	PTFE	Luer Lock	81420
42-08-65-73	5ml	PTFE	Luer Lock	81520
42-09-65-74	10ml	PTFE	Luer Lock	81620
42-30-65-75	25ml	PTFE	Luer Lock	82520

XLP



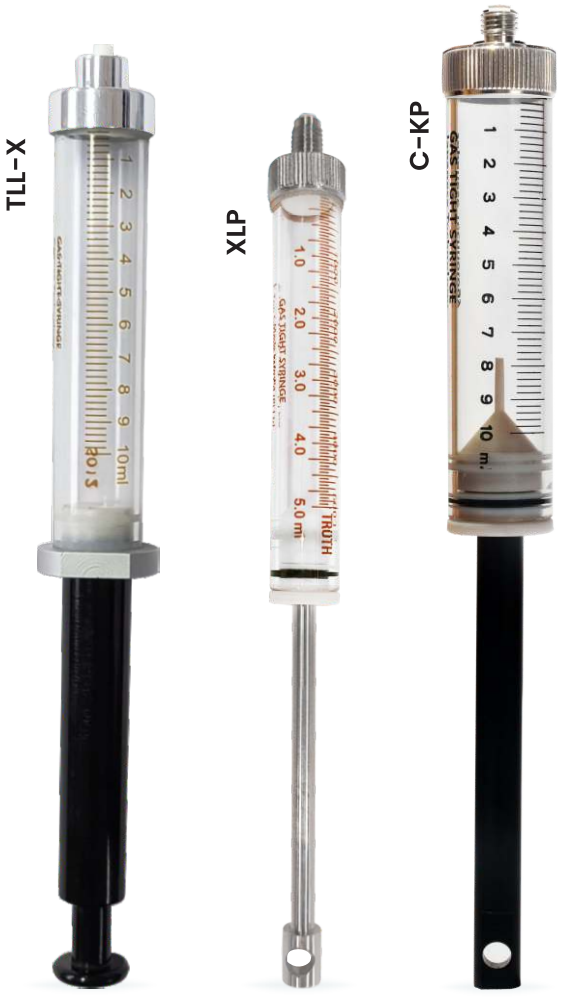
Catalog	Volume	Plunger Type	Termination	Reference
81-24-79-67	2.5ml	PTFE	1/4"-28UNF	2679031
81-08-79-73	5ml	PTFE	1/4"-28UNF	2679051
81-09-79-74	10ml	PTFE	1/4"-28UNF	2679071
81-30-79-75	25ml	PTFE	1/4"-28UNF	2679091
81-55-81-65	1ml	PTFE, ZDV	1/4"-28UNF	3010682
81-24-81-67	2.5ml	PTFE, ZDV	1/4"-28UNF	3010683
81-08-81-73	5ml	PTFE, ZDV	1/4"-28UNF	3010684

C-KP



Catalog	Volume	Plunger Type	Termination	Reference
80-09-70-74	10ml	PTFE, ZDV	1/4"-28UNF	2608060(C)
80-35-70-74	10ml	PTFE, ZDV	1/4"-28UNF	0114ASP002
80-09-80-74	10ml	PTFE	1/4"-28UNF	2608075
80-30-80-75	25ml	PTFE	1/4"-28UNF	2608091
80-13-80-71	50ml	PTFE	1/4"-28UNF	2608105

*C - Comparable



*Reference - Hamilton / ILS

Glass Syringes

XL

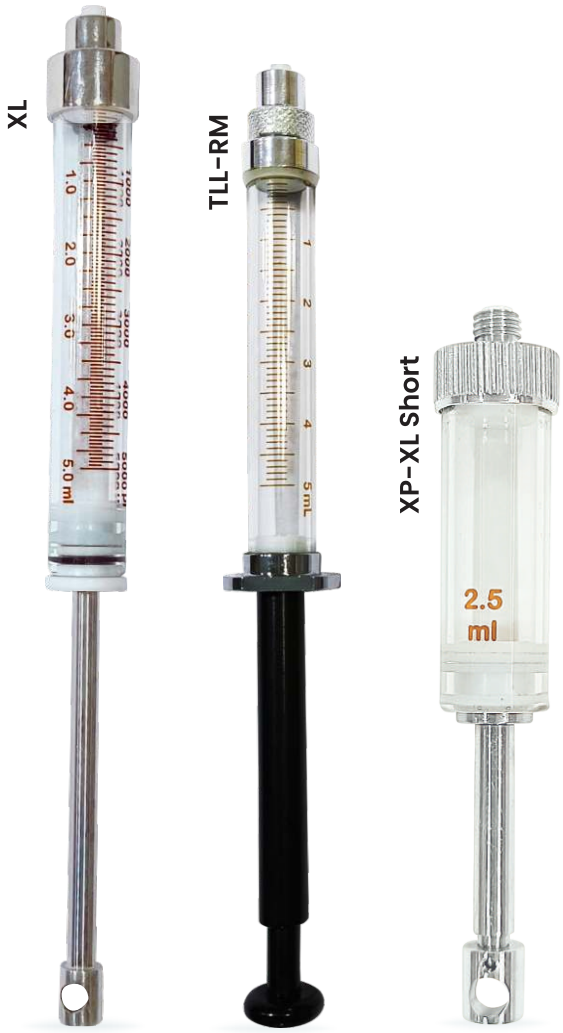


Catalog	Volume	Plunger Type	Termination	Reference
82-09-78-74	10ml	PTFE	Luer Lock	2607073
82-30-78-75	25ml	PTFE		2607096

TLL-RM



Catalog	Volume	Plunger Type	Termination	Reference
88-08-83-73	5ml	PTFE	Removable Luer Lock	008760 (SGE)



V3 - 30mm Stroke Syringes

XP-XL- Short



Catalog	Volume	Plunger Type	Termination	Reference
86-31-86-19	0.5ml,	PTFE	1/4" UNF Tread	2685915
86-32-86-15	1.0ml,	PTFE	1/4" UNF Tread	2685015
86-24-86-17	2.5ml	PTFE	1/4" UNF Tread	2685035
86-08-86-18	5ml,	PTFE	1/4" UNF Tread	2685055

*Reference - Hamilton / ILS

Syringes are customised as follows:

V6 - 60mm (Sizes : 1ml, 2.5ml, 5ml, 10ml,25ml)

Style	C	TLL-X	C-KP/H-KP	XL	XLP
Plunger Top	Dome Button with 6-32 UNC thread	Dome Button with 6-32 UNC thread	Side Hole 4.8 mm	Side Hole 4.8 mm	Side Hole 4.8 mm
Front Fitting	¼" UNF Thread	Luer Lock	¼" UNF Thread	Luer Lock	¼" UNF Thread

V3 - 30mm (Sizes : 500µl, 1.25ml, 2.5ml, 5ml, 12.5ml)

Style	XE	XP-XL Short	XP-XL
Plunger Top	Ball	Side Hole 4.8 mm	Side Hole 4.8 mm
Front Fitting	¼" UNF Thread	¼" UNF Thread	¼" UNF Thread



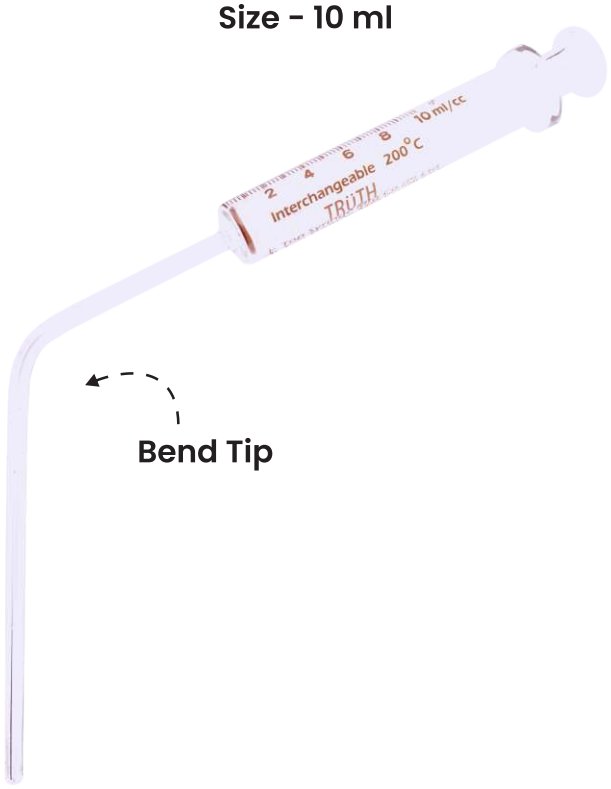
GLASS SYRINGES

TRÜTH™ Dispense Glass Syringes

100% inert liquid path instrument for aliquot collection from dissolution test apparatus

- The bent glass tube on the Borosilicate Glass syringe allows easy collection of the liquid sample solution from the Dissolution vessels.
- The inert borosilicate liquid path ensures that there are no contaminations, particle diffusions, absorptions or reactions from the sampling cannulae or Autosampler of Dissolution test apparatus.
- Plastic syringes / tubes, Stainless Steel needles tend to have qualities of absorption which also might react with the sensitive solutions.
- These accurate and precise results are the helpful and base for Multimedia Dissolution for bio-equivalence study ahead in the new product development & have to match with reference listed drugs products (RLDs) for the US, EU and other markets
- USP <711> recommends the use of glass and inert materials for the apparatus used in the procedure, and for sampling. Drugs which specifically need to be handled by glass include hormonal products as well as non-hormonal products e.g. Levothyroxine sodium tablets etc
- Using the Truth syringe eliminates the fear of doubt with respect to contamination during the critical tablet dissolution study.

Size - 10 ml



Catalog	Termination	Volume	Graduation	Pack
01-09-77-05	Bend Tip	10ml	0.01ml	1pc
01-10-77-06	Nozzle	20ml	0.01ml	1pc

TRÜTH™ Gas Syringes

Gas syringes, truth, 100ml with 40mm capillary tube, borosilicate glass, amber graduation printed of 1ml. Supplied without glass stopcock.

- All gases can be collected using a gas syringe used to collect and measure volumes of gases during reactions producing gases.
- The gas syringe is connected by a tube to the flask that is giving off the gas as shown in the images.
- The gas syringe has marks along its length that allow the volume of collected gas to be measured.
- As the volume of collected gas increases, the plunger moves further out of the syringe.
- The volume of collected gas can be measured in time as it increases, a graph of volume against time can be plotted.
- This can be used to show the rate of the reaction.



Catalog	Termination	Volume	Graduation	Pack
27-15-24-13	Capillary Nozzle	100ml	1ml	1pc

TRÜTH™ Filling Syringes wide Mouth Syringes

Glass Syringes for Filling Machines are manufactured from hard borosilicate glass and are precisely Calibrated for accurancy. They are designed to fit most of the commonly used ampoules, Vials & bottle filling machines...

TRÜTH™ Wide Mouth Glass Tip

Cat No.	Sizes	Graduation	Pack
16-07-04-04	2ml	0.1ml	10pcs
16-08-04-05	5ml	0.2ml	10pcs
16-09-04-05	10ml	0.2ml	10pcs
16-10-04-06	20ml	0.5ml	10pcs
16-11-04-07	30ml	1ml	1pc
16-13-04-08	50ml	2ml	1pc
16-15-04-08	100ml	2ml	1pc

TRÜTH™ 180° Cut Center Hole Syringe

Cat No.	Sizes	Graduation	Pack
16-13-56-08	50ml	2ml	1pc
16-15-56-08	100ml	2ml	1pc



TRÜTH™ 1/4 UNF Thread Tip Glass Syringes & 3/8 UNF Thread Tip Glass Syringes

1/4 UNF Thread Tip Glass Syringes Cat No.	3/8 UNF Thread Tip Glass Syringes Cat No.	Sizes	Graduation	Pack
23-07-13-04	23-07-14-04	3ml	0.1ml	10pcs
23-08-13-05	23-08-14-05	5ml	0.2ml	10pcs
23-09-13-05	23-09-14-05	10ml	0.2ml	10pcs
23-10-13-06	23-10-14-06	20ml	0.5ml	10pcs
23-11-13-07	23-11-14-07	30ml	1ml	1pc
23-13-13-08	23-13-14-08	50ml	2ml	1pc
23-15-13-08	23-15-14-08	100ml	2ml	1pc

*Cut / Open Barrel available on request

TRÜTH™ Suction Pipette

Graduated Pipette with Suction Piston

- Pipette Complies with IS, ISO / DIN 835
- Pipette are graduated to the tip
- Graduation in white enamel increase the visiblity with dark solution

Sizes	Catalog No	Capacity (ml)	Subdivision (ml)	Tolerance +/- ml	Packing
1ml	GSPS - 01- 0.01	1	0.01	0.01	1
1ml	GSPS - 01- 0.1	1	0.1	0.01	1
2ml	GSPS - 02- 0.02	2	0.02	0.02	1
2ml	GSPS - 02- 0.01	2	0.1	0.02	1
5ml	GSPS - 05- 0.05	5	0.05	0.05	1
5ml	GSPS - 05- 0.1	5	0.1	0.05	1
25ml	GSPS - 25 - 0.2	25	0.2	0.2	1
10ml	GSPS - 10 - 0.1	10	0.1	0.1	1



TRÜTH™ Control Glass Syringe & Metal Piston Syringes

Control glass syringes with 3 finger ring, glass or stainless steel piston & rubber ring. Reusable glass syringe for laboratory liquid handling.

Features

- The 3 ring offers better grip while holding the syringe & administering the dose
- Solid glass / metal version
- Graduated glass syringe with precision cut
- Ground-in piston with 'O' ring made of stainless steel
- Autoclavable (134°C or 273°F)
- Plunger and Glass Syringes can be interchanged as desired
- The SS Piston Glass Syringes is transparent and even after long use shows no sign of wear, as does the stainless steel plunge
- The plunger is smooth and so ensures enhanced tightness
- Applications include:

  Single hand operation in lab

  For filtration application with any brand of syringe filter

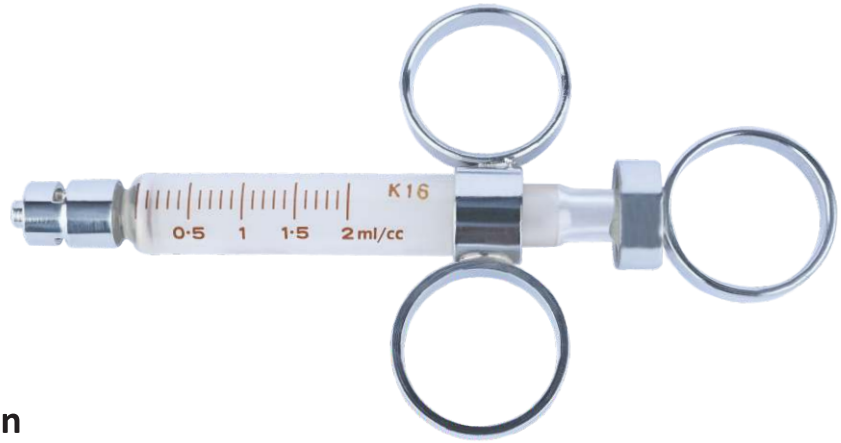
  Luer lock attachment to secure needle

A

Control Glass Syringe

TRÜTH™ Control Glass Syringe with 3 Finger Ring Glass Piston Metal Luer Lock Tip (CL) with 'O' Ring

Glass Piston	Volume	Graduation	Pack
19-05-02-04	2 ml	0.01 ml	1pc
19-07-02-04	3 ml	0.01 ml	1pc
19-08-02-05	5 ml	0.2 ml	1pc
19-09-02-05	10 ml	0.2 ml	1pc
19-10-02-06	20 ml	0.5 ml	1pc
19-13-02-08	50 ml	2 ml	1pc



B

Control Glass Syringe with SS Piston

TRÜTH™ Control Glass Syringes with 3 Finger Ring, Stainless Steel Piston & Metal Luer with 'O' Ring Lock Tip (CL)

Stainless Steel Piston with 'O' ring	Volume	Graduation	Pack
19-27-02-04	2 ml	0.01 ml	1pc
19-28-02-04	3 ml	0.01 ml	1pc
19-28-02-05	5 ml	0.2 ml	1pc
19-30-02-05	10 ml	0.2 ml	1pc
19-31-02-06	20 ml	0.5 ml	1pc
19-32-02-08	50 ml	2 ml	1pc



TRÜTH™ Record Glass Syringes

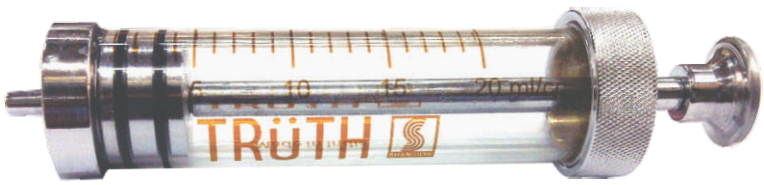
Glass Syringe fulfill the demand of medical practice & Veterinary application in simplicity and reliability in every way

Features :

- Graduated Glass Syringe with precision cut
- The Glass Syringes is transparent and even after long use shows no sign of wear, as does the stainless steel plunger
- Autoclavable (134° C or 273° F)
- There is no danger of breakage if Glass Syringe is not taken to pieces for sterilizing
- Plunger and Glass Syringes can be interchanged as desired
- The plunger is smooth and so ensures enhanced tightness

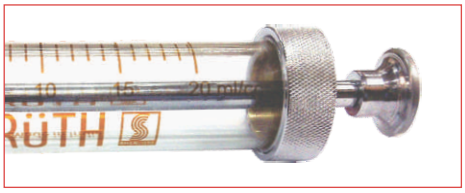
Record Glass Syringes are available with Metal Record Tip

Catalog No. Metal Record Tip	Capacity	Pack
17-04-21-02	1ml	Each
17-05-21-05	2ml	Each
17-08-21-06	5ml	Each
17-09-21-07	10ml	Each
17-10-21-08	20ml	Each
17-13-21-10	50ml	Each



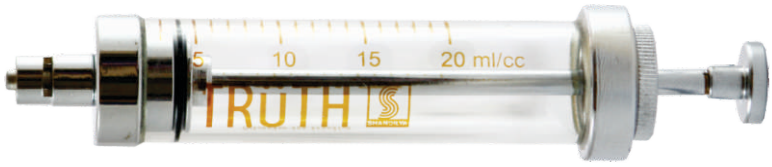


Metal Record Tip



Record Glass Syringes are available with Metal Luer Lock Tip

Catalog No. Metal Luer Lock Tip	Capacity	Pack
17-04-02-02	1ml	Each
17-05-02-05	2ml	Each
17-08-02-06	5ml	Each
17-09-02-07	10ml	Each
17-10-02-08	20ml	Each
17-13-02-10	50ml	Each





Metal Luer Lock Tip



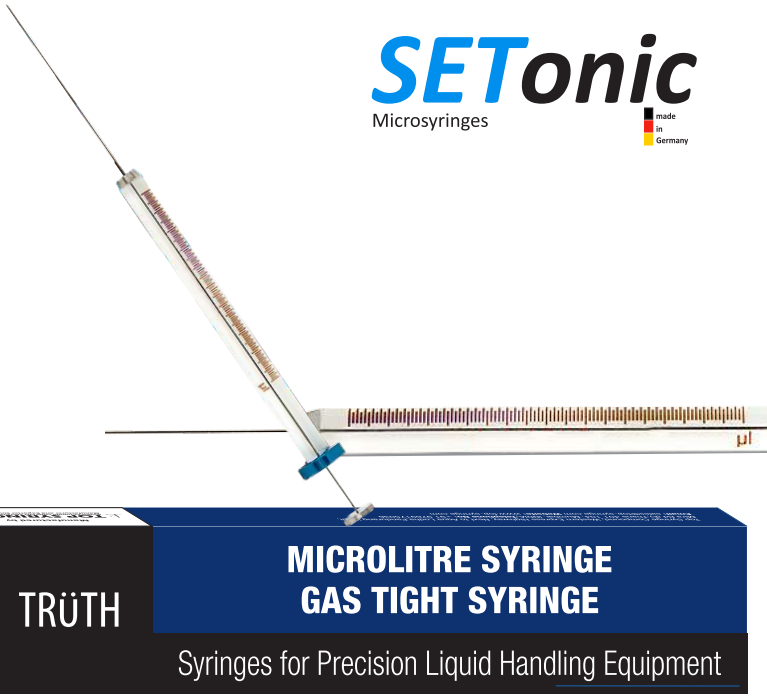
***Coming Soon SS Piston without 'O' Ring**

10 µL Microliter Syringe

Cemented Needle, 26s gauge, 2 inch

SETonic Cat. No.: 3030390

The 10µL Syringe is the original hand-fitted Microliter Syringe. This syringe is ideal for dispensing volumes 0.5µL upto 10µL.



PRODUCT SPECIFICATION

VOLUME	:	10µL
SYRINGE TYPE	:	MICROLITER
TERMINATION	:	CEMENTED NEEDLE (N)
NEEDLE	:	CEMENTED NEEDLE
GAUGE	:	26S GAUGE
POINT STYLE	:	2
NEEDLE LENGTH	:	2 inch (51mm)
FLAID PATH	:	SST, BOROSILICATE GLASS
AUTOCLAVABLE	:	NO
GAS STERILIZABLE	:	YES
PRESSURE	:	2000psig (137.9 bar)
MAXIMUM TEMPERATURE	:	50OC / 122O F
MINIMUM TEMPERATURE	:	10OC / 50O F
BARREL INNER DIAMETER	:	0.019 inches (0.485mm)
BARREL OUTER DIAMETER	:	0.260 inches (6.60mm)
NEEDLE INNER DIAMETER	:	0.005 inches (0.13mm)
NEEDLE OUTER DIAMETER	:	0.0187 inches (0.47mm)
STANDARD NEEDLE DEAD VOLUME	:	0.64µL
SALES QUANTITY	:	1 SYRINGE PER PACK

AS PER

HAMILTON	ILS
Cat. No. 80300	Cat. No. 2100401

Catalog No.	Description
30-30-390	10 µl Pack of 1
30-30-213	10 µl Pack of 6





GLASS SYRINGES

TRÜTH™ Reusable Needles

We offer a variety of needles for laboratory use. All needles are made with type 304 stainless steel cannulae. They are good ground and electro polished on high precision machines. Needles are fitted with standard nickel plated luer hubs. Autoclavable@ 121°C

Other Sizes available on request

Aspiration Needles / Hypodermic Needle



Catalog No.	Sizes	Pack
TN-14-0200-B	14G X 2	10
TN-14-0400-B	14G X 4	10
TN-16-1000-B	16G X 10	10
TN-16-0300-B	16G X 3	10
TN-16-0400-B	16G X 4	10
TN-16-0600-B	16G X 6	10
TN-16-0800-B	16G X 8	10
TN-17-0600-B	17G X 6	10
TN-18-0100-B	18G X 1	10
TN-18-0300-B	18G X 3	10
TN-18-0400-B	18G X 4	10

Catalog No.	Sizes	Pack
TN-18-0600-B	18G X 6	10
TN-18-0800-B	18G X 8	10
TN-18-1000-B	18G X 10	10
TN-18-1200-B	18G X 12	10
TN-19-0800-B	19G X 8	10
TN-19-1000-B	19G X 10	10
TN-19-1200-B	19G X 12	10
TN-20-0100-B	20G X 1	10
TN-20-1000-B	20G X 10	10
TN-20-1200-B	20G X 12	10
TN-20-0200-B	20G X 2	10

Catalog No.	Sizes	Pack
TN-20-0400-B	20G X 4	10
TN-20-0434-B	20G X 4	10
TN-20-0600-B	20G X 6	10
TN-20-0800-B	20G X 8	10
TN-22-0200-B	22G X 2	10
TN-22-0800-B	22G X 8	10
TN-22-1000-B	22G X 10	10
TN-22-1200-B	22G X 12	10
TN-23-0300-B	23G X 3	10
TN-23-0600-B	23G X 6	10

Catalog No.	Sizes	Pack
TN-16-0112-B	16G X 1.5	12
TN-18-0112-B	18G X 1.1/2	12
TN-18-0012-B	18G X 1/2	12
TN-20-0112-B	20G X 1.1/2	12
TN-20-0012-B	20G X 1/2	12
TN-22-0100-B	22G X 1	12
TN-24-0100-B	24G X 1	12
TN-26-0012-B	26G X 1/2	12
TN-26-0400-B	26G X 4.3/4	12
TN-27-0038-B	27G X 3/8	12

Hypodermic Needle



Blunt Dispending Needle

Catalog No.	Sizes	Pack
TN-20-0112-D	20G x 1½"	12
TN-16-0400-D	16G x 4"	10
TN-14-0400-D	14G x 4"	10
TN-15-0500-D	15G x 5"	10

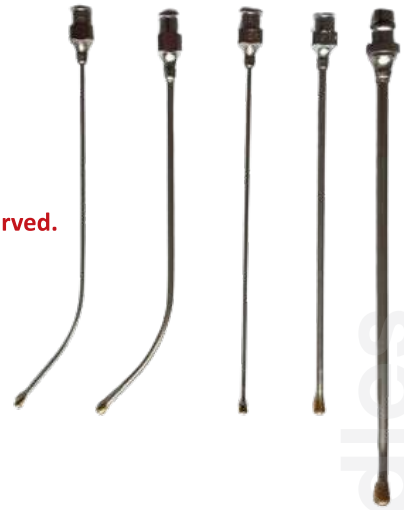


Blunt Needles

Feeding Needles

The drenchers are intended for safe animal nose and mouth feeding. The drenchers have staight or bent shapes with rounded ends. The Luer Lock fixture provide for tight fitting on to the syringe nozzle

Catalog No.	Sizes	Description	Pack
TN-18-0200-FS	18G X 2"	Straight	3
TN-16-0400-FS	16G x 4"	Straight	2
TN-14-0300-FS	14G x 3"	Straight	3
TN-18-0200-FC	18G x 2"	Curved	3
TN-16-0400-FC	16G x 4"	Curved	2
TN-14-0300-FC	14G x 3"	Curved	3



B = Bevel / Lancet Point. D = Blunt Flat Cut. FS = Feeding Needle Straight. FC = Feeding Needle Curved.

Recommended Needles for Glass Syringes

Syringe Type/ Needle Gauge	0.25ml	0.50ml	1.0ml	2.0ml	3.0ml	5.0ml	10.0ml	20.0ml	30.0ml	50.0ml	100.0ml	150.0ml	200.0ml
14G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	O	O	O
16G	✓	✓	✓	✓	✓	✓	✓	✓	✓	O	O	O	X
18G	✓	✓	✓	✓	✓	✓	✓	O	O	O	X	X	X
20G	✓	✓	✓	✓	✓	✓	✓	O	O	X	X	X	X
21G	✓	✓	✓	O	O	O	O	X	X	X	X	X	X
22G	✓	✓	✓	O	O	O	O	X	X	X	X	X	X
24G	✓	✓	O	O	O	O	O	X	X	X	X	X	X
26G	O	O	O	X	X	X	X	X	X	X	X	X	X
27G	O	O	X	X	X	X	X	X	X	X	X	X	X

✓ Recommnended Suitable Needle O Can Be Used Needle X Not Suitable Needle

***More Varieties Comes Soon**

TRÜTH™ DGA Glass Syringes

About Sampling of Transformer Oil

In Compliance with IEC 60475 Method of Sampling Insulating Liquids IEC 60567 Sampling of Gases & Analysis of Free & Dissolved Gases ASTM 3613 Sampling Insulating Liquid for Gas Analysis & Determination of Water content.

For in-service Oil filled electric Transformers, sampling of the oil provides a method to determine the condition of the solid and oil insulation as well as the operating condition of the Transformer without opening or de-energizing the Transformer.
Sampling provides a means to check the condition of oil in storage, whether it be new or used, & to determine if it complies with company specifications.

An Oil Sample has to be a representative and maintain the properties and contents of the bulk Oil insulation present in the Transformer. Periodical Testing of the Oil in the Transformer is needed to ensure its Repeated Performance and Long Life of the apparatus.

Sampling the Oil to be Tested is the FIRST concern which will ensur accurate results of the oil While sampling the representative oil one must check for foreign matters including Water droplets, Sediments, Suspected Clear Fibers, Headspace Air etc.

Critical initial On-Site visual inspection of the presence of any foreign matter in the oils should be detected at the time of sampling itself. Identifying a Poor Sample and the decision to resample should be made and executed prior to the leaving the On-Site.

Outages due to faulty Transformer Oil Analysis could have adverse snow-balling effect on the electricity connections.



Tests Include:

(1) Dissolved Gas Analysis
(2) Water
(3) Dielectric dissipation factor
(4) Particles
(5) Breakdown voltage
(6) Other chemical & physical tests

In Compliance With

IEC 60475
Method of Sampling Insulating Liquids

IEC 60567
Sampling of Gases & Analysis of Free & Dissolved Gases

ASTM D923
Sampling Insulating Liquids for Gas Analysis and Determination of Water Content

Feartures

1) The syringe is made from heat resistant borosilicate glass.
2) They confirm to ISO 594/1; 595/2.
3) The material and construction is resistant to breakage from shock and sudden temperature changes.
4) It is annealed and tested until free of internal strain, to withstand repeated washing with hot water.
5) Reinforced at luer lock tip and barrel base, the points at which most breakage occurs.
6) The syringe cylinder plunger fit is leak proof and meets the requirements of Federal Specification GG-S-92 lb / A-A-54840/ISO 7886 for any leakage or backflow & for smooth plunger movement.
7) In compliance with IEC-60567, IEC-60475 & ASTM-D923 8.
8) Plunger is individually ground and fitted to barrel for smooth movement with no back flow.
9) Barrel rim is flat on both sides to prevent rolling and is wide enough for convenient finger tip grip.
10) The syringes are available in universal fit or custom fit design. The custom fit syringes are uniquely numbered for matching.
11) The syringes metal luer lock tip meets the specification of the American National Standards for Medical Materials luer taper fitting performances ISO 594 (Earlier HIMA MD 70.1-1983).
12) The fitting is made from chrome-plated brass and fits all female luer lock fitting.
13) The syringe is clearly marked with appropriate graduations.
14) The graduations and logos are permanently fused on to the glass. This accounts for a lifetime accuracy and legibility.
15) The syringe plunger is colored bevelled rimed to facilitate dosage measurement.
16) The syringe reinforced Flanges which is flat on two sides prevents the syringe from rolling.

Tosin Accessories For Transformer Oil Sampling Instruments

1) TOSIN Nylon Stopcocks

Cat No.	Description
09-25-17-00	TOSIN 3 Way Nylon Stopcock



3 Way Stopcock

Features

- Made of 100% Nylon
- Two female ports and one male port
- Two female ports designed to accept Luer Lock fitting
- Manufactured in accordance with IEC-60475 IEC-60567 & ASTM-D923
- Rugged Construction
- Manufactured to meet strict ANSI standards
- Our quality control ensures that the valves will perform reliably

2) TOSIN Tube with Connector

Cat No.	Description
09-25-16-00	TOSIN Tube with Connector

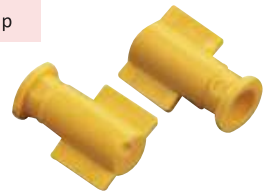


Features

- Standard accessory for IEC section 4.2.1.4 for transformer oil sampling.
- Two pieces of Tosin Tubing are attached with connector.

3) TOSIN Un-vented Male & Un-vented Female Plug Cap

Cat No.	Description
09-25-19-00	TOSIN Un-vented Male Plug Cap



Features

- Rugged Construction
- Accept Luer Lock fitting
- Meets ANSI standards

4) TOSIN Padded Carrying Cases

Cat No.	Description
30-10-00-00	20ml TOSIN Padded Carrying Case
30-12-00-00	30ml TOSIN Padded Carrying Case
30-13-00-00	50ml TOSIN Padded Carrying Case
30-15-00-00	100ml TOSIN Padded Carrying Case



DGA Glass Syringe for Transformer Oil Sampling as per IEC 60475 Section 4.2.2.2

Size	20ml	30ml	50ml	100ml	150ml
Catalogue No.	09-10-02-07	09-11-02-07	09-13-02-08	09-15-02-10	09-16-02-08
Description	20ml,TRÜTH DGA Glass Syringes, Match Number, Metal Luer Lock Tip, 1ml Graduation	30ml,TRÜTH DGA Glass Syringes, Match Number, Metal Luer Lock Tip, 1ml Graduation	50ml,TRÜTH DGA Glass Syringes, Match Number, Metal Luer Lock Tip, 2ml Graduation	100ml, TRÜTH DGA Glass Syringes, Match Number, Metal Luer Lock Tip, 2ml Graduation	150ml,TRÜTH DGA Glass Syringes, Match Number, Metal Luer Lock Tip, 2ml Graduation
Piston Outside Diameter	20.10mm ±0.2mm	22.90mm ±0.2mm	27.45mm ±0.20mm	35.90mm ±0.2mm	35.90mm ±0.2mm
Barrel Outside Diameter	23.4mm ±0.30mm	27.30mm ±0.40mm	32.35mm ±0.55mm	41.20m ±0.40mm	41.20mm ±0.40mm
Barrel Collar Diameter	32.75mm ±0.75mm	37.55mm ±0.75mm	44.00mm ±0.75mm	55.50mm ±0.75mm	55.50mm ±0.75mm
Overall Length Graduation	150.00mm ±1.00mm	163.00mm ±1.00mm	178.00mm ±01.00mm	215.00mm ±1.50mm	262.00mm ±1.50mm
Increment	1.0ml	1.0ml	2.0ml	2.0ml	2.0ml
Volume	20 ml ±1.5% of volume	30 ml ±1.5% of volume	50 ml ±1.5% of volume	100 ml ±1.5% of volume	150 ml ±1.5% of volume



Other sizes of 200ml, 250ml, 500ml, & 1000ml available on request
*Specifications are subject to change without prior notice. Syringes will be always in Compliance of ISO 594/595

GLASS SYRINGES

BLISSFILL Liquid Handling

Automatic Self-Refilling Syringes (as per ISO 8655-9)

For Repetitive Dispensing of Liquids in the Laboratory

Range: 0.05ml - 10ml
(50µl - 10,000µl)

121°C
Autoclavable



Blissfill Video

- Individual Calibration Certificate with Each Syringe
- Fully Autoclavable
- Inert Liquid Path

BLISSFILL Self-Refilling Syringe

Features

- Autoclavable at 121°C for 20 Minutes
- Dosing Accuracy : Tolerance < 0.4% of Dose
- Inert Liquid Path:
  - Silicone, Borosilicate Glass, FPM, Stainless Steel, Nicke Chrome Plated Brass
- No 'O' Ring Or Lubrication Needed During Use
- No Need of Servicing With Silicone Oil-Same Effortless Movement is Ensured Every Time
- Glass Barrel & SS Plunger - Inert Ensures Long Life
- Fast & Reliable Volume Selection
- Simple and Natural Movements
- Clear Visibility of Dose
- Easy to Clean and Light Weight
- Long Lasting
- Calibration Certificate with Each Syringe

Applications Include:

- Reagent Distribution
- Hot Agar
- Sterile Work
- Filling of Well Plates
- HPLC Vial Preparation
- Small Batch Injection Vials
- Distribution of Cell Culture Media
- Perfume Filling



Product Advantage

Simple and Natural Movements: The activation of the Blissfill Self Refilling Syringe is Performed with Limited effort for efficient work even during long dispensing series. This ensures complete user comfort.

Fast and Reliable Volume Selection: Volume is set within seconds. It will not vary while activating the syringe, thanks to the safety locking nut on the micro metric screw. Dose-by-dose reproducibility is excellent.

Plunger Tightness without 'O' Ring: The smooth plunger travel and tightness is achieved through the high-precision stainless steel plunger and grounded glass barrel. No 'O' Ring to mess with or replace ever.

Low Maintenance: The Blissfill Syringes are made of only 6 main parts, which are easy to disassemble & reassemble. The fast access to all elements allows rapid & efficient cleaning. Spare parts are available at reasonable cost.

High Quality Construction: All components are made of superior quality raw material which are thoroughly checked by our qualified QC department prior to production. Each component is made from Superior Quality material including glass, plastics, metals etc. These are thoroughly checked during each stage of manufacturing for quality & specification.

Sterilization: Sterilization possible while fully assembled in boiling water or in autoclave at 121°C (250°F).

Economical & Low Replacement Cost: Only the glass part will have to be changed instead of buying a new device. Truly an unbeatable Price to Quality Ratio Product.

Glass Protection: Interchangeable glass barrel is protected by a PVC sleeve (not autoclavable) to prevent breakage.

Liquid Path

Parts in Contact with Liquid	Material
Feed Tubing	Silicone
Glass Barrel	Borosilicate Glass
Washer, Barrel	FPM
Plunger	Stainless Steel
Valve System	Ni-Cr Plated Brass
Washer, Valve	PTFE
Spring & Ball Valve	Stainless Steel
Vent & Feed Cannula	Ni-Cr Plated Brass

Viscosity Data

Variable Model ml	Maximal Cinematic Viscosity * (CST)	Example of Liquids
0.3	1800	SAE 50 Oil
0.5	2500	Fluid Honey
1	1200	Silicone Oil
2	400(up to 600)[1)]	Glycerol
5	150 (up to 200)[1)]	SAE 20 Oil
10	20	Cream

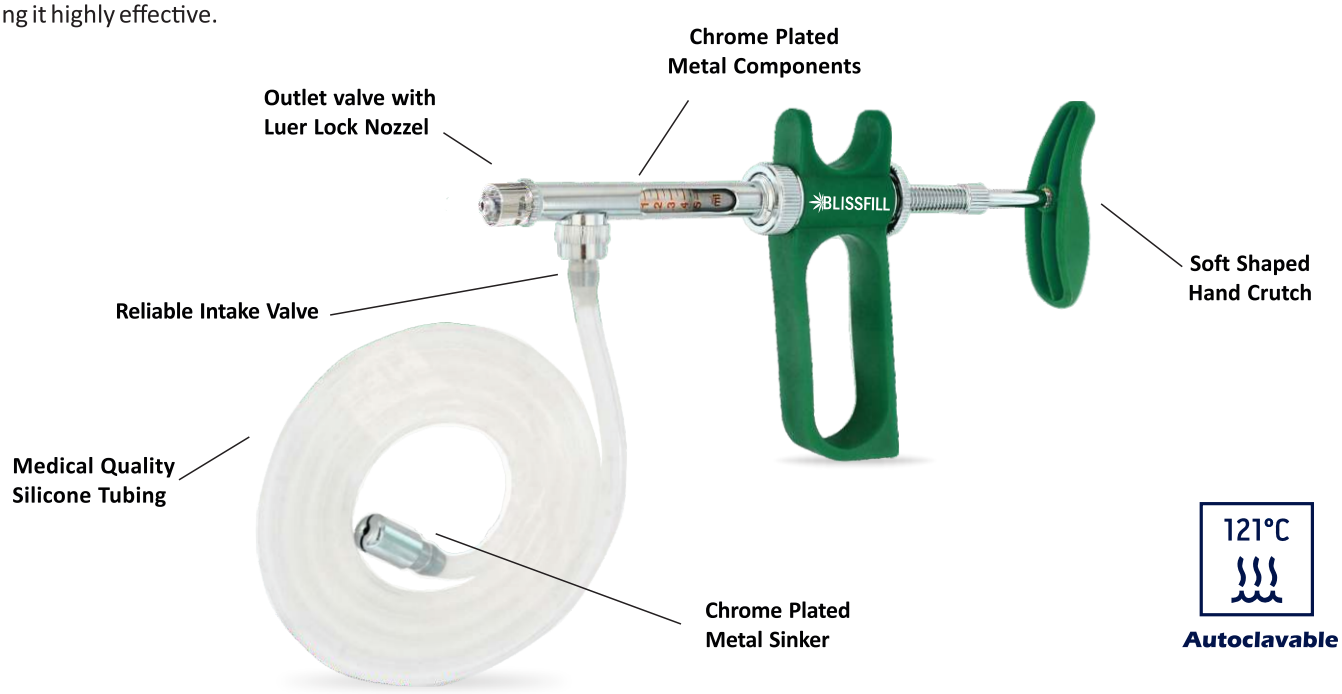
Precision (CV%)

Volume Range(ml)	Precision (CV%)	
	Min. Vol	Max. Vol
0.1 - 0.5	<1,2%	<0,4%
0.1-1.0	<0,7%	<0,7%
0.3-2.0	<0,6	<0,4%
0.5-5.0	<0,5%	<0,2%
1.0-10.0	<0,5%	<0,2%

BLISSFILL Feed Tube Set

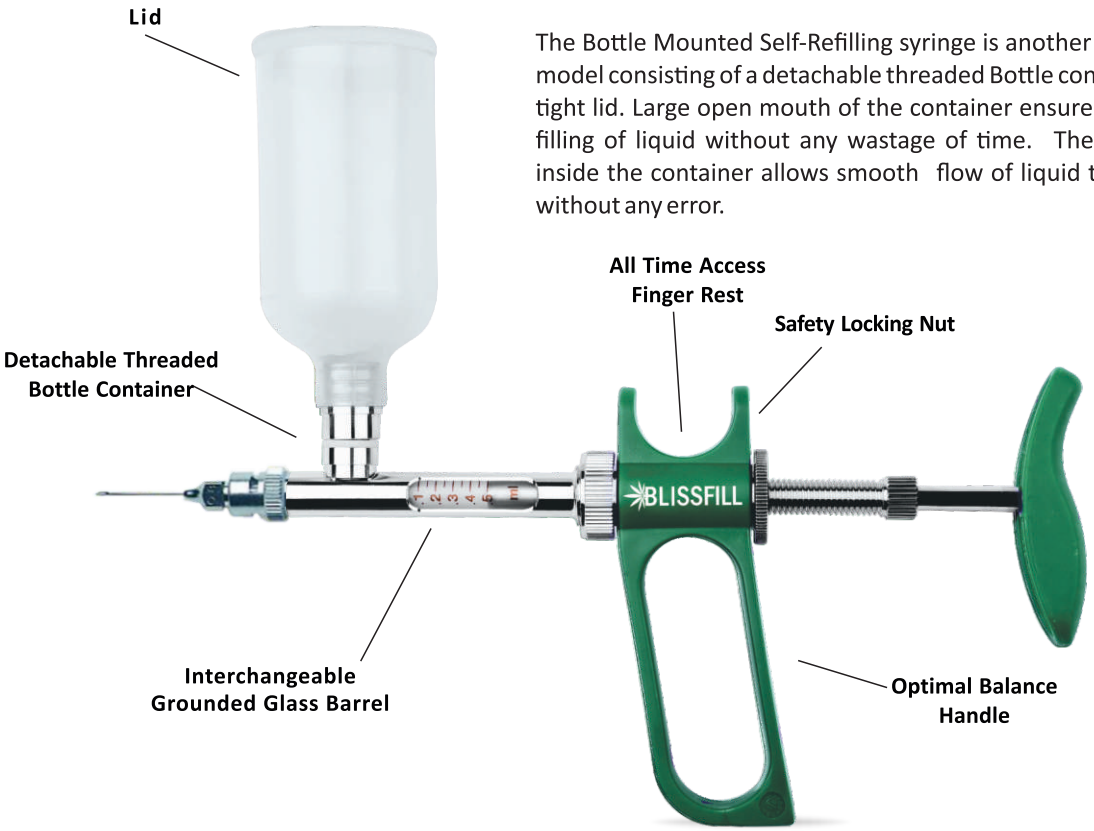
This Product is for use with Feed Tube. This model comes with accessories that facilities repetitive dosing from bottles or jars using feed tubes, sinker valve, feed cannula etc. The sinker valve ensures it reaches and stays at the bottom of the jar during the time of usage. This would ensure that the entire liquid in the jar would be used making it highly effective.

The model is compatible for use with aqueous, oily, viscous or heavy iron solutions as well as a variety of suspensions using special viscous spring. The long life and durability of the product makes it the most economical model available. Reusable needles included in select models.



121°C
Autoclavable

BLISSFILL Bottle Mounted Set, 60ml PP Reservoir



The Bottle Mounted Self-Refilling syringe is another liquid feeding model consisting of a detachable threaded Bottle container with air tight lid. Large open mouth of the container ensures easy repeat filling of liquid without any wastage of time. The dribble valve inside the container allows smooth flow of liquid to the injector without any error.

121°C
Autoclavable

BLISSFILL
Self Refilling Feed Tube Set, 1 Pack

Cat No.	Size	Graduation	Range
BFTS-05	0.5 ml	0.05 ml	0.05ml (50µl) - 0.5 ml (500µl)
BFTS-10	1 ml	0.05 ml	0.1 ml (100µl) - 1.0 ml (1000µl)
BFTS-20	2 ml	0.1 ml	0.3 ml (300µl) - 2.0 ml (2000µl)
BFTS-50	5 ml	0.25 ml	0.5 ml (500µl) - 5 ml (5000µl)
BFTS-100	10 ml	1.00 ml	1.0 ml (1000µl) - 10 ml (10,000µl)



Packing Contains : Supply Includes Metal Body, Luer Lock Nozzle Plunger, Glass Barrel, Intake Valve, Feed Tube, Sinker, Feed Cannula, Vent Cannula, Spare Kit - Spring, Valve Balls & Washers, Detailed Operating Manual, (Viscous Solution Spring Only for 2ml, 5ml & 10ml)

BLISSFILL
Self Refilling Bottle Mounted Set, 1 Pack

Cat No.	Size	Graduation	Range
BBMS-05	0.5 ml	0.05 ml	0.05ml (50µl) - 0.5 ml (500µl)
BBMS-10	1 ml	0.05 ml	0.1 ml (100µl) - 1.0 ml (1000µl)
BBMS-20	2 ml	0.1 ml	0.3 ml (300µl) - 2.0 ml (2000µl)
BBMS-50	5 ml	0.25 ml	0.5 ml (500µl) - 5 ml (5000µl)



Packing Contains : Supply Includes Metal Body, Luer Lock Nozzle, Plunger, Glass Barrel, Threaded Bottle Container, Bottle Lid, Spare Kit - Spring, Valve Balls & Washer, Needle, Detailed Operating Manual, (Viscous Solution Spring Only 2ml & 5ml)

BLISSFILL Accessories

Item	Catalog	Size	
Glass Barrel, Grounded, Interchangeable	BF-50-GB BF-100-GB BF-200-GB BF-500-GB BF-1000-GB	0.5ml 1ml 2ml 5ml 10ml	
Spare bag includes Springs, Balls, Washer for Valve & Barrel	BF-50-SK BF-100-SK BF-200-SK BF-500-SK BF-1000-SK	0.5ml 1ml 2ml 5ml 10ml	
Feed Tubes	BF-1000-FT	0.5-10ml	
Viscous Spring	BF-50-VS BF-100-VS BF-200-VS BF-500-VS BF-1000-VS	0.5ml 1ml 2ml 5ml 10ml	
1) Sinker 2) Intake Valve 3) Luer lock	BF-5000-SI BF-5000-IV BF-5000-LL	0.5-10ml 0.5-10ml 0.5-10ml	
1) Short Vent Cannulas 2) Long Feed Cannulas	BF-5000-VC BF-5000-FC	0.5-10ml 0.5-10ml	
Mounted PP Reservoirs	BF-5000-BMS	60ml	
Vial Holder Conversion Set with valve	BF-5000-VHC	-	
Rubber Washer	BF-5000-RW	0.5-10ml	
Feed Tubing conversion set	BF-5000-FTC	–	

CORTO Liquid Dispensing Pipettors with Calibration Certificate

Liquid dispensing pipettor with dose by dose dispensing & continuous dispensing options



- Dose by dose dispensing & Continuous dispensing options
- Fluid transfer without the capital investment required for filling pumps
- Low maintanence
- Sizes 2ml, 5ml, 10ml, 20ml
- Detachable 2 way valve option
- The device is for use with a wide variety of reservoirs including vials, syringes, oral medication containers. Also used for drug dosage distribution and reconstitution in hospital pharmacies
- Calibration certificate with each syringe



Applications

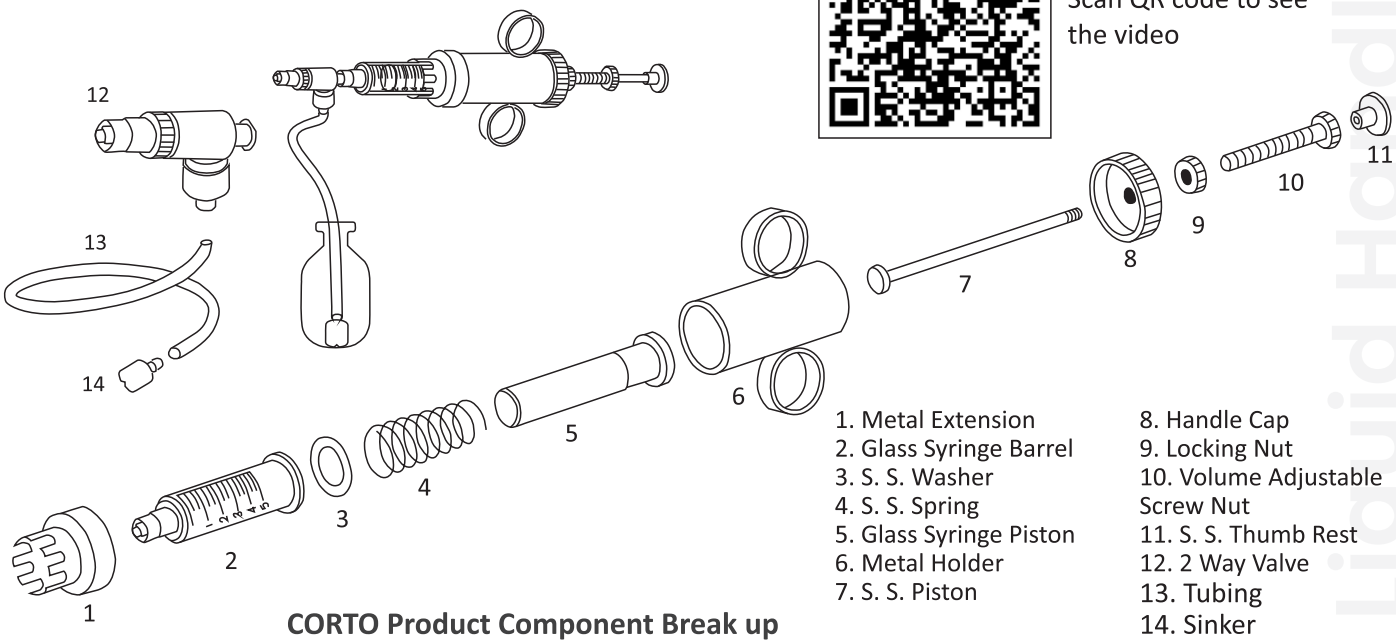
- Lab repetitive sample preparation
- Fluid Transfer
- Hazardous chemicals handling
- Dose by dose distribution
- Repetitive dispensing distribution
- Sterile work
- Animal Injection
- Sterile media filling in aseptic conditions

Features :

- Simple screw adjustment for accurate volume setting
- Automatic return of spring loaded plunger to preset volume for quick repeat dispensing
- Filling assembly attachment enables continuous refilling from reservoir and repetitive delivery of preset volumes
- Unique design of metal bivalve and sinker ensures smooth, leak proof liquid transfer
- Inert Liquid Path: Silicone, Borosilicate Glass, FPM, Stainless Steel
- Simple natural movements
- Plunger tightness without 'O' ring
- Autoclavable at 121°C for 20 minutes
- Dosing accuracy: tolerance < 0.4% of dose
- Clear visibility of dose



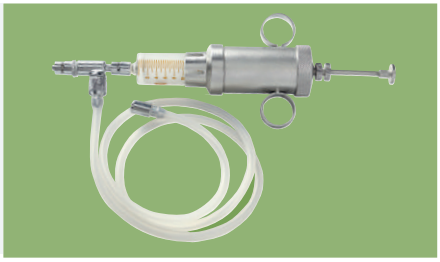
Scan QR code to see the video



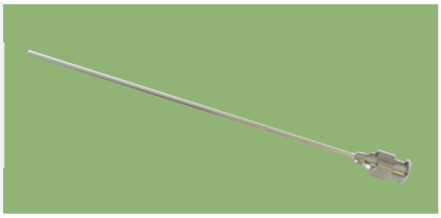
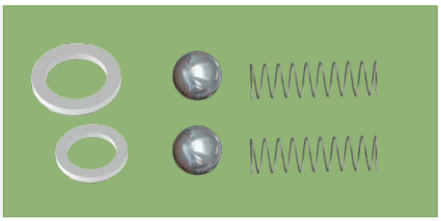
CORTO Product Component Break up

1. Metal Extension
2. Glass Syringe Barrel
3. S. S. Washer
4. S. S. Spring
5. Glass Syringe Piston
6. Metal Holder
7. S. S. Piston
8. Handle Cap
9. Locking Nut
10. Volume Adjustable Screw Nut
11. S. S. Thumb Rest
12. 2 Way Valve
13. Tubing
14. Sinker

Liquid Handling Syringes

Catalog	Item	Size	Graduation	Pack	
14-05-00-00 14-08-00-00 14-09-00-00 14-10-00-00	CORTO Syringe Dose by Dose	2ml 5ml 10ml 20ml	0.05ml 0.2ml 0.5ml 1ml	Each Each Each Each	
14-05-30-00 14-08-30-00 14-09-30-00 14-10-30-00	CORTO Syringe Kit Repetitive Dose	2ml 5ml 10ml 20ml	0.05ml 0.2ml 0.5ml 1ml	Each Each Each Each	

CORTO Accessories

14-05-02-03 14-08-02-05 14-09-02-06 14-10-02-07	CORTO Glass Syringe with Metal Luer Lock Tip 	2ml 5ml 10ml 20ml	0.05ml 0.2ml 0.5ml 1ml	10pcs 10pcs 10pcs 10pcs	
Available in Glass Tip 		Metal Tip 		SS Luer Lock 	
14-25-32-31 14-25-32-32 14-25-32-33	Pipetting Reusable Needles with Blunt Tip	2ml 0.5ml 10-20ml	Gauge 20 16 14	Length 1.5Inch 4Inch 4Inch	
14-25-29-00 14-25-31-00	CORTO Two Way Valve	2,5,10ml 20ml		Each Each	
14-25-29-45 14-25-31-45	CORTO Spare Kit Set (2 Balls, 2 Springs, 2 Washers for Valve)	2,5,10ml 20ml		Each Each	
14-25-00-49	CORTO Silicon Tube (ID 3.2mm OD 6.4mm)	1mtr		Each	
14-25-00-39	CORTO Sinker	2-20ml		Each	

Inox Repeating Syringe Dispenser (as per ISO 8655-9)

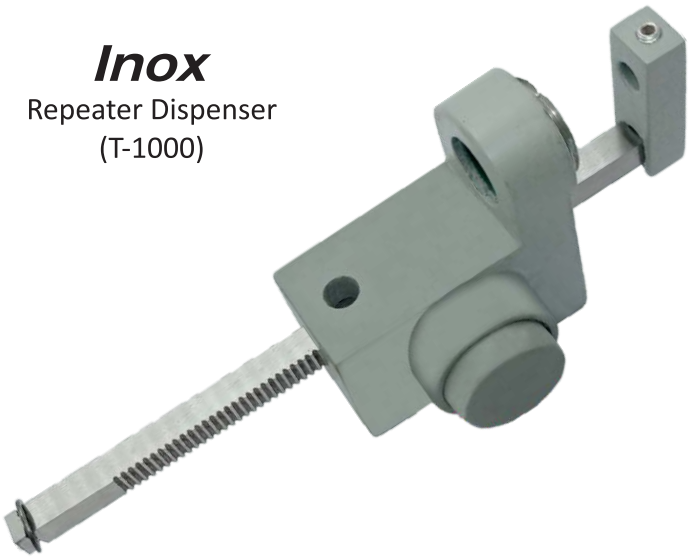
Repetitive Accurate Dispensing of 30µl

The Inox "T-1000" Repeating Syringe Dispenser is a low cost, high accuracy accessory for repetitive dispensing.

It is the most versatile, hand-held, semi-automated dispensers available in the market today. The repeating dispenser is compatible with the fixed needle (LTFN), luer tip (LT), or PTFE Luer Lock (TLL) syringes. The size available is of 1.5ml, which can dispense volumes of 30µL respectively with the "T-1000." Every time you press the dispenser button, the "T-1000" Repeating Dispenser mechanically advances the syringe plunger by 1.2mm. Based on a 60 mm scale length at full volume of the respective syringe, the 1/50th voulme is accurately dispensed. Most fluids can be effectively handled using either a 22 gauge needle. You can use with the Luer Tip (LT), syringes and to work with your specific needles. The TRUTH "T-1000" dispenser has virtually unlimited applications when there is a need to deliver liquid volumes of 30µL repeatedly up to 50 times before refilling.

Each press of the button dispenses 1/50th of the syringe volume. The precision fluid measuring device consistently dispenses samples up to 50 times.

Inox
Repeater Dispenser
(T-1000)



Features :

- Wetting Material - PTFE, Glass & SS Needle
- Inox Repeater Dispenser mechanically advances the syringe plunger by 1.2mm
- On a 60mm scale length at full volume of the respective syringe, the 1/50th volume is accurately dispensed
- Autoclavable at 121°C for 20 minutes
- Dosing Accuracy : Tolerance < 1% of dose
- Calibration certificate with each syringe.
- 1.5ml syringe can dispense volumes of 30µL respectively.
- Some typical uses includes:
  - Preparing standard solutions
  - Filling microliter trays
  - Feeding cell cultures
  - Spotting TLC plates
  - Human leukocyte locus-A (HLA) tissue typing
  - Dosing small animals (Intracerebral)
  - Industrial applications include lubricating small bearings or parts, applying liquid solder, and dispensing mercury

TRÜTH
Center All Glass Tip Syringe
(42-61-01-80)





Catalog No.	Item	Volume	Graduation	Pack	Reference
42-61-01-80	Center all Glass Tip (LT) Syringe	1.5ml	0.03ml	1pc	-
42-61-66-80	Fixed Needle (LTFN) Syringe	1.5ml	0.03ml	1pc	-
42-61-65-80	PTFE Luer Lock (TLL)Syringe	1.5ml	0.03ml	1pc	-
T-1000	***Inox*** Repeater Dispenser	-	-	1pc	PB600

with Calibration Certificate

Video

Disposable Glass Capillaries

100% MACHINE MADE

Mucaps Disposable glass Capillary Pipettes are quality products, that conforms to international standard ISO 12772 & ISO 7550. They are made from uniform Borosilicate 3.3 glass Tubing.
These Capillaries are made by Special drawing Machine. Cut to Constant lengths 75mm, 100mm & 125mm as per Product Specification or as per Customer Requirement.

The pipettes are packed in a plastic vial with a dispenser top, that makes it easy to out one tube at a time and thereby eansuring hygienic handling. Ten vials are packaged in a sturdycarton in order to protect the tubes from damage during handlingor transport. Special requirements regarding marking, dimensions, packing or impregnation are possible. Each micropipette intended to be used onceonly and then discarded

Laboratory Applications for TLC, GR, ETE, Melting Point Capillaries

- For handling small amounts of liquids, blood sampling, microfluidics, and manipulating biological samples
- Designed for manual TLC sampling mainly in pharma R&D. Can be positioned with the Multipurpose Spotting Guide TLC plates
- Storage of small amounts of liquids or for the determination of melting point - tubes which are open at one end and can be easily sealed in a Bunsen flame
- For precise predetermined volume dispensing
- Microbiology to determine bacterial motility or measure bacterial growth rates
- Sampling and measuring the interaction between chemical and biological molecules, such as surface tension, viscosity, surfactant concentration, etc
- Used to purify and identify the chemical and physical properties of different compounds, such as viscosity, surface tension, wettability, and flexibility

MUCAPS® MICRO CAPILLARIES TLC Glass Capillaries for Spotting

100% MACHINE MADE

Non Calibrated tubes made from borosilicate glass for use with aqueous and organic solutions.
Useful for depositing small amounts of sample on to a TLC (Thin Layer Chromatography) Plate.

This prevents overloading and helps to achieve an accurate and clear TLC in preparation for running a small column.
For Pharma R&D

Catalog No.	Length	I.D (±0.10mm)	O.D (±0.10mm)	Weight	Pack
21-00-011	4 Inch Capillary	0.55	0.85	-	100 caps
21-00-012	4 Inch Capillary	0.55	0.85	-	250 caps
21-00-015	5 Inch Capillary	0.55	0.85	100 gm	1100 caps (A)
21-00-016	8 Inch Capillary	0.55	0.85	200gm	1300 Caps (A)
21-00-017	10 Inch Capillary	0.55	0.85	200 gm	1100 Caps (A)

*A - Approx

Box Packing

Catalog No.	Length	I.D (±0.10mm)	O.D (±0.10mm)	Pcs. per Box
21-00-911	4 Inch Capillary	0.55	0.85	100 caps
21-00-912	4 Inch Capillary	0.55	0.85	250 caps



Box Packing



***Other Sizes on Request**

Micro Capillaries

MUCAPS® MICRO CAPILLARIES Graduated (GR) Capillaries with Colour Code

(as per ISO 7550)

100% MACHINE MADE

Mucaps Precalibrated Pipettes are intended for applications where accurate capillary tube volume is required. The pipettes are in conformity with ISO 7550.

The Pipettes have a standard length of 125 mm and the colour-coding on each pipette the volume, which is measured from the base and up to the thin black ring mark.

Catalog No.	Size (µl)	No. of Marks & Position	I.D mm	O.D mm	Tol.	Pcs. Per. Vial No. of. Pack	Colour Code
22-02-005	5	5 marks at 1,2,3,4,5µL	0.32	1.17	± 2%	250x5	White
22-12-005	5	1 mark at 5 µL	0.32	1.17	± 1%	250x5	White
22-02-010	10	2 marks at 5, 10µL	0.45	1.28	± 1%	250x5	Orange
22-12-010	10	1 mark at 10µL	0.45	1.28	± 1%	250x5	Orange
22-02-020	20	1 mark at 20µL	0.64	1.42	± 1%	250x5	Black
22-02-025	25	1 mark at 25µL	0.64	1.42	± 1%	250x5	2xWhite
22-02-050	50	1 mark at 50µL	1.00	1.40	± 1%	250x5	Green
22-02-100	100	1 mark at 100µL	1.25	1.85	± 1%	100x5	Blue
22-02-200	200	1 mark at 200µL	1.80	2.40	± 1%	100x5	Red







Micro Capillaries

MUCAPS® End To End Capillaries (ETE)

100% MACHINE MADE

Mucaps End-to-End Micro Pipettes without marking are said to contain specification volume when filled completely the pipettes are in conformity with ISO 7550.The Intended application include to Collection & Dispense Fluid, Blood samples Collect etc..

The Precision bore capillary tube is attached into a dispensing bulb to form a unique micro pipette for easy collection & dispensing of sample.
The pipettes are packed in a plastic vial with a dispenser top, that makes it easy to shake out one tube at a time and there by ensuring hygienic handling.

Catalog No. Plain Heparinised	Catalog No. Sodium Heparinised	Description	Length mm	I.D (±0.05mm)	O.D (±0.10mm)	Pcs. Per. Vial No. of. Pack
22-00-0005	22-01-0005	End to End capillary 0.5 µl	15.0	0.21	1.78	250x10
22-00-001	22-01-001	End to End capillary 01.0 µl	29.0	0.21	1.78	250x10
22-00-002	22-01-002	End to End capillary 02.0 µl	29.0	0.30	0.84	250x10
22-00-003	22-01-003	End to End capillary 03.0 µl	29.0	0.36	1.00	250x10
22-00-004	22-01-004	End to End capillary 04.0 µl	29.0	0.42	1.18	250x10
22-00-005	22-01-005	End to End capillary 05.0 µl	29.0	0.47	1.32	250x10
22-00-010	22-01-010	End to End capillary 10.0 µl	29.0	0.66	0.96	250x10
22-00-020	22-01-020	End to End capillary 20.0 µl	29.0	0.94	1.37	250x10
22-00-025	22-01-025	End to End capillary 25.0 µl	29.0	1.05	1.53	250x10
22-00-044	22-01-044	End to End capillary 44.0 µl	29.0	1.40	1.92	250x10
22-00-050	22-01-050	End to End capillary 50.0 µl	29.0	1.48	2.04	250x10
22-00-100	22-01-100	End to End capillary 100.0 µl	75.0	1.30	1.80	250x10
22-00-150	22-01-150	End to End capillary 150.0 µl	75.0	1.60	2.10	250x10
22-00-200	22-01-200	End to End capillary 200.0 µl	100	1.60	2.10	250x10

*Also Available with Lithium Heparinised Capillary





Catalog No.	Description	Pack
BD-101	Bulb Dispenser / Pipette Holder with Glass Body	50

MUCAPS® Melting Point Micro capillaries

100% MACHINE MADE

Mucaps Melting point Capillary Tubes are perfect for the handling and transport of small volumes of liquid, Melting Point determinations and many other purposes. Melting Point tubes are uniform and cut at right angles.

These capillaries are cut to constant length 75mm, 100mm, &125mm Or as per customer requirement.
Available in dispenser plastic vials or bulk packing as well.

One End Sealed & Both End Open - Vial Packing

One End Sealed Catalog No.	Both End Open Catalog No.	Length	I.D (±0.10mm)	O.D (±0.10mm)	Pcs. Per. Vial No. of. Pack
20-00-019	20-00-020	75mm	1.00	1.50	100x10
20-00-021	20-00-022	75mm	1.00	1.50	250x10
20-00-023	20-00-024	100mm	1.00	1.50	100x10
20-00-025	20-00-026	100mm	1.00	1.50	250x10



Vial Packing

One End Sealed & Both End Open - Box Packing

One End Sealed Catalog No.	Both End Open Catalog No.	Length	I.D (±0.10mm)	O.D (±0.10mm)	Pcs. Per. Box No. of. Pack
20-00-919	20-00-920	75mm	1.00	1.50	100x10
20-00-030	20-00-029	75mm	2.00	2.50	100x10
20-00-930	20-00-929	75mm	2.00	2.50	50x10
20-00-923	20-00-924	100mm	1.00	1.50	100x10
20-00-032	20-00-031	100mm	2.00	2.50	100x10
20-00-932	20-00-931	100mm	2.00	2.50	50x10



Box Packing





One End Sealed & Both End Open - Bulk Packing of 1000 Pcs

One End Sealed Catalog No.	Both End Open Catalog No.	Length	I.D (±0.10mm)	O.D (±0.10mm)	Pack Size
20-00-B19	20-00-B20	75mm	1.00	1.50	1 Box
20-00-B23	20-00-B24	100mm	1.00	1.50	1 Box

Bulk Packing

*Other Sizes on Request

MUCAPS® Blood Sampling Capillaries

100% MACHINE MADE

Variety of micro capillaries, Heparinised and non Heparinised are offered by us for various applications such as blood grouping, blood typing, coagulation, PVC test etc.

Applications :

- Blood Time Clotting Time (BTCT) tests
- Haematocrit capillaries are used to measure the percentage of red blood cells in a blood sample. They are used in a variety of applications, including immunoglobulin, Anemia and polycythemia diagnosis
- Haematocrit capillaries are useful for mass surveys because they require less blood and less time than other methods.
- The dosed heparinised solution is adjusted to not affect the determination of pH- and calcium level, as it is possible when adding not neutralised heparin saline solutions
- Ammonium heparin does not interfere with sodium identification
- Mice & Rat bleeding capillaries for blood sampling from respective species

Catalog No.	Description	Length mm	I.D (mm)	O.D (mm)	Pcs. Per. Vial No. of. Pack
20-00-011	Haematocrit Capillary, Sodium Heparinised	75	1.15 ± 0.08	1.60 ± 0.05	100x10
20-00-012	Haematocrit Capillary, Non Heparinised	75	1.15±0.08	1.60 ± 0.05	100x10
20-00-R11	Haematocrit Capillary, Sodium Heparinised with Red Tip	75	1.15 ± 0.08	1.60 ± 0.05	100x10
20-00-B12	Haematocrit Capillary, Non Heparinised with Blue Tip	75	1.15 ± 0.08	1.60 ± 0.05	100x10
20-00-017	BTCT (Bleeding Time Clotting Time)	90	1.00 ± 0.10	1.50 ± 0.10	100x10
20-00-018	BTCT (Bleeding Time Clotting Time)	90	1.00 ± 0.10	1.50 ± 0.10	250x10
22-02-027	Mice Bleeding Capillary	32	0.55 ± 0.05	0.84 ± 0.10	100x10
22-02-028	Rat Bleeding Capillary	52	0.74 ± 0.05	1.00 ± 0.10	100x10

*Also Available with Lithium Heparinised Capillary

Box Packing

Catalog No.	Description	Length mm	I.D (mm)	O.D (mm)	Pcs. Per. Box No. of. Pack
20-00-917	BTCT (Bleeding Time Clotting Time)	90	1.00 ± 0.10	1.50 ± 0.10	100x10

Box Packing



Vial Packing



Micro Capillaries

MUCAPS® MICRO CAPILLARIES Blood Gas Analyser

100% MACHINE MADE

Mucap Capillary tubes for blood gas analyser are made from heavy walled glass, suitable for 2.3mm adaptors.

The uniform heparinisation secure proper function of the tubes for blood gas analysis

- Capillaries are used for POCT machine / tests including haematology analysers
- Paediatric blood sampling
- Blood gas capillary tubes are capillaries for the analysis of blood gas, including parameters of oxygen and carbon dioxide, low volume pH, oximetry and metabolite analysis.

Catalog No.	Description	Length mm	I.D (±0.10mm)	O.D (±0.10mm)	Volume	Pcs. Per. Vial No. of. Pack
20-00-013	Strumia Sodium Heparinised Capillary	125	0.55	0.85	100µl	100 X 10
20-00-014	Strumia Non-Heparinised capillary	125	0.55	0.85	100µl	100 X 10
20-00-015	Heparinised Blood Gas Analyzer	32	1.00	1.50	7.5µl	100 X 10
20-00-016	Non-Heparinised Blood Gas Analyzer	32	1.00	1.50	7.5µl	100 X 10
22-02-029	Lithium Heparinised Blood Gas Analyzer with 3 rings Marks 50µl intervals	125	1.50	1.90	200µl	250 X 10

*Also Available with Lithium Heparinised Capillary



MUCAPS® MICRO CAPILLARIES Blood & Fluid Sampling Glass Capillaries (OEM)

- **Capillary for precise volumetric measurement to collect specific volumes down to 1ul in full-fill or calibrated varieties**

- **Options available :**
  a. Coating with Lithium/Sodium heparin or EDTA can be applied
  b. Customised packing depending on your application / kit.
  c. Unique colour marking can be provided to validate the authenticity of a tube or activate an instrument to begin a test or identification of desired volume.

- **Application**
  a. Diagnostic test kits
  b. Point-of-Care Testing
  c. Urine analysis (Uranalysus)
  d. Rapid Test Kits
  e. Blood Sampling
  f. Serving Haematology
  g. Cardiac markers
  h. COVID- 19 Test Kits



Catalog No.	Description	Length mm	I.D (±0.10mm)	O.D (±0.10mm)	Volume	Pcs. Per. Vial No. of. Pack
20-05-010	5µl Mark Sodium Heparinised Capillary 1/10	75	1.00	1.45	5µl	10/3000
20-05-012	5µl Mark Sodium Heparinised Capillary 1/12	75	1.00	1.45	5µl	12/3000
20-05-025	5µl Mark Sodium Heparinised Capillary 1/25	75	1.00	1.45	5µl	25/3000

*Contact us for your Specific requirments



Hyalus 3.3 Borosilicate Glass Test Tube

Glass test tubes are grade I, made from borosilicate hard glass, 3.3 expansion, with rim, without rim, with uniform thickness for better heat transfer & chemical resistance. Also available under OEM.

- Made from superior quality tube glass to reduce pH changes and contaminants that are potentially leached from tubes made from soda lime glass
- Tubes can be used for tissue culture and blood banks
- Tubes are chemically inert
- Tubes feature well-rounded bottoms and smooth, fire-polished rims
- Dimensional specifications are rigidly controlled for reliable, uniform results
- Suitable for general testing and culturing applications in blood banks, hematology, bacteriology, virology, and tissue culture laboratories

Catalog No. With Rim	Catalog No. Without Rim	Sizes	Pack
6110075	6210075	10 X 75	100pcs
6112075	6212075	12 X 75	100pcs
6112100	6212100	12 X 100	100pcs
6115100	6215100	15 X 100	100pcs
6115125	6215125	15 X 125	100pcs
6115150	6215150	15 X 150	100pcs
6118150	6218150	18 X 150	100pcs
6125100	6225100	25 X 100	100pcs
6125150	6225150	25 X 150	100pcs



Standard Glass Test Tube

Premium quality glass tubes are produced from Superior glass that provides excellent chemical resistance and durability. The tubes are available in various sizes and feature uniform bottoms and fire polished rims. They are neatly packaged in boxes of 100, Also available in pack 250.

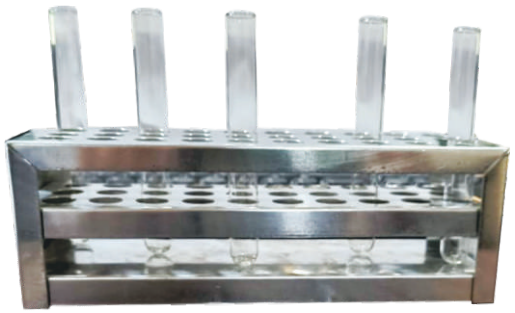
Catalog No.	Description	Size	Pack
H- 10075	10 X 75mm	3ml	100 Per Box
H- 12075	12 X 75mm	5ml	100 Per Box
H- 12100	12 X 100mm	7ml	100 Per Box



Test Tubes Rack

Test tube racks are used to hold upright multiple test tubes at the same time. They are most commonly used when various different solutions are needed to work with simultaneously, for safety reasons, for safe storage of test tubes, and to ease the transport of multiple tubes.

Catalog No.	Description	Pack
TTR-30	SS Material with 30 Hole for 12 X100	1



Colpak® Micro Storage Vials (High Recovery) for Custom Synthesis & Pharmaceuticals Impurities (U-Tube)

When small volume samples have to be dispatched, it is often difficult to either retrieve the micro volume sample from the vial or to apply a label holding all the necessary information on the limited space available. The solution is our short-insert storage vial. The insert is fused with the outer body so that even powder can be retrieved easily.

The wide opening and the low depth of the insert, allow the use of a pipette. The long vial body allows the application of a reasonably sized label and the handling of the vial with gloves. Thanks to the conical insert, smallest volumes may be retrieved.

0.5ml Micro Storage U-Tube Vials

White Cap With Liner 	White Cap With Leak Proof Plug Cap 	Description	Height
TC 1600 A	TC 1600 APC	Clear Open Bottom	52mm
TC 1600 C	TC 1600 CPC	Amber Open Bottom	52mm
TC 1640 A	TC 1640 APC	Clear Closed Bottom	40mm
TC 1640 C	TC 1640 CPC	Amber Closed Bottom	40mm

Materials

Vial : Borosilicate Glass, Type 1
Screw Cap : Polypropylene
Septa/ Liner : Silicon with PTFE Coating or Leak Proof Plug Cap

GERMAN TECHNOLOGY





Colpak® Storage Vials

Screw neck vials for storage purpose made out of 1st hydrol class glass. Vials with different volumes are available. Clear amber glass vials. Seal with different septa materials.

Clear Borosilicate Storage Vial

Calatog No.	Sizes	Capacity	Neck Finish	Cap Style	Pack	Case Lot
TC 91 A	12x32	2ml	9-425	-	100	10x100
TC 130 A	15x45	4ml	13-425	-	100	10x100
TC 140 A	16x57	5ml	GL-14	-	100	10x100
TC 2410 A	27.5x50	10ml	24-400	-	100	10x100
TC 2420 A	27.5x57	20ml	24-400	-	100	5x100
TC 2430 A	27.5x72.5	30ml	24-400	-	100	5x100
TC 2440 A	27.5x95	40ml	24-400	-	100	5x100
TC 91 A+TC 904 A	12x32	2ml	9-425	Clear Vial + Black Closed Top & PTFE	100	10x100
TC 130 A+TC 1304 K	15x45	4ml	13-425	Clear Vial + Black Closed Top & PTFE	100	10x100
TC 140 A+TC 1404 L	16x57	5ml	GL-14	Clear Vial + Blue Closed Top & PTFE	100	10x100
TC 2410 A+TC 2404 L	27.5x50	10ml	24-400	Clear Vial + Black Closed Top & PTFE	100	10x100
TC 2420 A+TC 2404 L	27.5x57	20ml	24-400	Clear Vial + Black Closed Top & PTFE	100	5x100
TC 2430 A+TC 2404 L	27.5x72.5	30ml	24-400	Clear Vial + Black Closed Top & PTFE	100	5x100
TC 2440 A+TC 2404 L	27.5x95	40ml	24-400	Clear Vial + Black Closed Top & PTFE	100	5x100
TC 91 A+TC 914 A	12x32	2ml	9-425	Clear Vial + Blue Open Top & PTFE	100	10x100
TC 130 A+TC 136 K	15x45	4ml	13-425	Clear Vial + Black Open Top & PTFE	100	10x100
TC 2410 A+TC 244 L	27.5x50	10ml	24-400	Clear Vial + White Open Top & PTFE	100	10x100
TC 2420 A+TC 244 L	27.5x57	20ml	24-400	Clear Vial + White Open Top & PTFE	100	5x100
TC 2430 A+TC 244 L	27.5x72.5	30ml	24-400	Clear Vial + White Open Top & PTFE	100	5x100
TC 2440 A+TC 244 L	27.5x95	40ml	24-400	Clear Vial + White Open Top & PTFE	100	5x100
TC 130 A+TC 130 APC	15x45	4ml	13-425	Clear Vial + Black Color Top & Push Cap	100	10x100
TC 140 A+TC 140 APC	16x57	5ml	GL-14	Clear Vial + Blue Color Top & Push Cap	100	10x100
TC 2410 A+TC 2410 APC	27.5x50	10ml	24-400	Clear Vial + Black Color Top & Push Cap	100	10x100
TC 2420 A+TC 2420 APC	27.5x57	20ml	24-400	Clear Vial + Black Color Top & Push Cap	100	5x100
TC 2430 A+TC 2430 APC	27.5x72.5	30ml	24-400	Clear Vial + Black Color Top & Push Cap	100	5x100
TC 2440 A+TC 2440 APC	27.5x95	40ml	24-400	Clear Vial + Black Color Top & Push Cap	100	5x100



Clear Vial



White Open Top with Liner



Black / White Cap With Liner



Closed Cap with Push Cap

Amber Borosilicate Storage Vial

Calatog No.	Sizes	Capacity	Neck Finish	Cap Style	Pack	Case Lot
TC91C	12x32	2ml	9-425	-	100	10x100
TC130C	15x45	4ml	13-425	-	100	10x100
TC 140 C	16x57	5ml	GL-14	-	100	10x100
TC 2410 C	27.5x50	10ml	24-400	-	100	10x100
TC2420C	27.5x57	20ml	24-400	-	100	5x100
TC2430C	27.5x72.5	30ml	24-400	-	100	5x100
TC2440C	27.5x95	40ml	24-400	-	100	5x100
TC 91 C+TC 904 A	12x32	2ml	9-425	Amber Vial + Black Closed Top & PTFE	100	10x100
TC 130 C+TC 1304 K	15x45	4ml	13-425	Amber Vial + Black Closed Top & PTFE	100	10x100
TC 140 C+TC 1404 L	16x57	5ml	GL-14	Amber Vial + Blue Closed Top & PTFE	100	10x100
TC 2410 C+TC 2404 L	27.5x50	10ml	24-400	Amber Vial + Black Closed Top & PTFE	100	10x100
TC 2420 C+TC 2404 L	27.5x57	20ml	24-400	Amber Vial + Black Closed Top & PTFE	100	5x100
TC 2430 C+TC 2404 L	27.5x72.5	30ml	24-400	Amber Vial + Black Closed Top & PTFE	100	5x100
TC 2440 C+TC 2404 L	27.5x95	40ml	24-400	Amber Vial + Black Closed Top & PTFE	100	5x100
TC 91 C+TC 914 A	12x32	2ml	9-425	Amber Vial + Blue Open Top & PTFE	100	10x100
TC 130 C+TC 136 K	15x45	4ml	13-425	Amber Vial + Black Open Top & PTFE	100	10x100
TC 2410 C+TC 244 L	27.5x50	10ml	24-400	Amber Vial + White Open Top & PTFE	100	10x100
TC 2420 C+TC 244 L	27.5x57	20ml	24-400	Amber Vial + White Open Top & PTFE	100	5x100
TC 2430 C+TC 244 L	27.5x72.5	30ml	24-400	Amber Vial + White Open Top & PTFE	100	5x100
TC 2440 C+TC 244 L	27.5x95	40ml	24-400	Amber Vial + White Open Top & PTFE	100	5x100
TC 130 C+TC 130 CPC	15x45	4ml	13-425	Amber Vial + Black Color Top & Push Cap	100	10x100
TC 140 C+TC 140 CPC	16x57	5ml	GL-14	Amber Vial + Blue Color Top & Push Cap	100	10x100
TC 2410 C+TC 2410 CPC	27.5x50	10ml	24-400	Amber Vial + Black Color Top & Push Cap	100	10x100
TC 2420 C+TC 2420 CPC	27.5x57	20ml	24-400	Amber Vial + Black Color Top & Push Cap	100	5x100
TC 2430 C+TC 2430 CPC	27.5x72.5	30ml	24-400	Amber Vial + Black Color Top & Push Cap	100	5x100
TC 2440 C+TC 2440 CPC	27.5x95	40ml	24-400	Amber Vial + Black Color Top & Push Cap	100	5x100



Amber Vial

Colpak® HPLC / Autosampler Vials

Colpak® ND 9 Short Screw Thread Vials 12 x 32mm

Why Select 9mm Short Screw Thread Vials?

9mm screw thread vials have a 9-425 GPI thread and the closure is dimensionally equivalent to 11mm crimp cap vials. This means that they can be used in any autosampler that uses 11mm crimp cap vials.

9mm screw caps have an advantage over 11mm crimp caps because 9mm screw caps can easily be applied and removed by hand and they can be reused. All vials are manufactured with USP type 1 glass.

Catalog	Description	Pack
TC-90 A	12 x 32mm, Clear Glass, 1st Hydrol Class, Wide Opening	100
TC-90 B	12 x 32mm, Clear Glass, 1st Hydrol Class, Wide Opening, Label + Filling Lines	100
TC-90 C	12 x 32mm, Amber Glass, 1st Hydrol Class, Wide Opening	100
TC-90 D	12 x 32mm, Amber Glass, 1st Hydrol Class, Wide Opening, Label + Filling Lines	100
TC-91ERB	12 x 32mm, PP 9mm Micro-Vial, Transparent	100



TC-90 A



TC-90 B

Colpak® 9mm Short Screw Thread Septas & Caps

TC-94 BA	PP Blue Knurled Short Screw Thread Cap, 6mm Center Hole Silicone White / PTFE Red	100
TC-94 BB	PP Blue Short Screw Thread Cap, 6mm Center Hole PTFE Red / Silicone White / PTFE Red	100
TC-94 BG	PP Blue Knurled Short Screw Thread Cap, 6mm Center Hole Silicone White / PTFE Red with Pre-Slit	100
TC-94 BD	PP Blue Knurled Short Screw Thread Cap, 6mm Center Hole Silicone White / PTFE Light Blue	100
TC-94 EG	PP Blue Knurled Short Screw Thread Cap, 6mm Center Hole Silicone White / PTFE Light Blue with Pre-Slit	100



TC-90 D



TC-91 ERB

Colpak® 9mm PP Blue Knurled Short Screw Thread Cap Bonded Septas

TC-94 BOA	PP Blue Knurled Short Screw Thread Cap, 6mm Center Hole Bonded Silicone White / PTFE Red	100
TC-94 BOG	PP Blue Knurled Short Screw Thread Cap, 6mm Center Hole Bonded Silicone White / PTFE Red with Pre-Slit	100
TC-94 BIA	PP Blue Knurled Short Screw Thread Cap, 6mm Center Hole Bonded Silicone Red / PTFE Red	100
TC-94 BIG	PP Blue Knurled Short Screw Thread Cap, 6mm Center Hole Bonded Silicone Red / PTFE Red with Pre-Slit	100



9mm Short Screw Thread Cap & Bonded Septas



9mm Short Screw Thread Septas &Cap

Colpak® 9mm Pre-assembled Vials with Caps & Septa

available on request as per our combination

HPLC Glass Syringe

Finding it difficult to handle THF? Use our 1ml Glass Syringe today for easy handling

Catalog	Description	Pack
01-03-01-03	1ml HPLC Glass Syringe, 0.05ml Graduation	10



Colpak® ND 11 Crimp Neck Vials 12 x 32mm

Why select 11mm Crimp Neck Vials?

Crimp caps provide the tightest seal, reducing the chance of sample evaporation. The 12 x 32mm crimp vials and 11mm aluminium crimp caps are economical and easy to use with crimping tools. All vials are manufactured with USP type 1 glass.

Colpak® 11mm Crimp Neck Vials

Catalog	Description	Pack
TC-110 A	12 x 32mm, Clear Glass, 1st Hydrol Class, Wide Opening	100
TC-110 B	12 x 32mm, Clear Glass, 1st Hydrol Class, Wide Opening, Label + Filling Lines	100
TC-110 C	12 x 32mm, Amber Glass, Wide Opening	100
TC-110 D	12 x 32mm, Amber Glass, 1st Hydrol Class, Wide Opening, Label + Filling Lines	100



TC-110 A



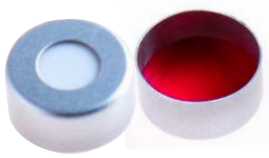
TC-110 B



TC-110 D

Colpak® 11mm Aluminium Septas & Caps

TC-117	Aluminium Cap Clear 5.5mm Center Hole	100
TC-117 A	Aluminium Cap Clear 5.5mm Center Hole Silicone White / PTFE Red	100
TC-117 B	Aluminium Cap Clear 5.5mm Center Hole PTFE Red / Silicone White / PTFE Red	100
TC-117 G	Aluminium Cap Clear 5.5mm Center Hole Pre-Slit Silicone White / PTFE Red	100



11mm
Aluminum Cap

Colpak® 11mm Crimper

- Easy Conveenient handling
- Chemically resistant surface finish especially designed for the application in labs
- Hardended crimping, jaws made of a special alloy that guarantees long life

TC-119A	Crimper for 11mm Aluminium Caps	1



TC-119A

Colpak® ND 11 Snap Ring Vials 12 x 32mm

Why select 11mm Snap Ring Vials?

11mm snap caps provide a secure seal that minimises evaporation, even with volitile samples. Snap caps are often more convenient than crimp caps as they can easily be applied and removed by hand. An audible click ensures a secure seal has been formed and that the cap is correctly aligned. Snap/crimp vials can be closed with either snap caps or crimp caps. All vials are manufactured with USP type 1 glass.

Colpak® 11mm Snap Ring Vials

Catalog	Description	Pack
TC-110 SA	12 x 32mm, Clear Glass, 1st Hydrol Class, Wide Opening	100
TC-110 SB	12 x 32mm, Clear Glass, 1st Hydrol Class, Wide Opening, Label + Filling Lines	100
TC-110 SC	12 x 32mm, Amber Glass, Wide Opening	100
TC-110 SD	12 x 32mm, Amber Glass, 1st Hydrol Class, Wide Opening, Label + Filling Lines	100



TC-110 SA



TC-110 SB

Colpak® 11mm Snap Ring Vials

TC-112 SA	PP Clear 6mm Snap Ring Cap, Silicone White/ PTFE Red	100
TC-112 SG	PP Clear 6mm Snap Ring Cap, Pre-Slit Silicone White / PTFE Red	100
TC-112 SI	PP Clear 6mm Snap Ring Closed Cap with Star Membrane	100
TC-70	PP Vial Rack 182x92x16mm, 50 cavities with 12mm Diameter	1

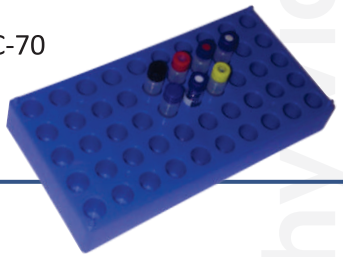


11mm Snap Ring Septas & Caps



TC-110 SD

TC-70



Colpak® Limited Volume Inserts

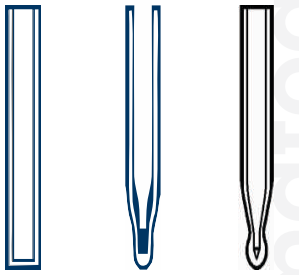
Why select Limited Volume Inserts?

Limited volume inserts are an economical solution in sample analysis to reduce the use and waste of solvents and small samples. For optimum instrument performance and accurate test results, use the guides below to ensure that the correct insert is used with the appropriate autosampler vial. The insert is neckless and always has to be used within a vial. The diameter of the insert depends on the size of the vial opening. Inserts reduces the volume, so that the needle is capable of picking up even smallest sample quantities. The larger the top of an insert, the more the volume can be reduce.

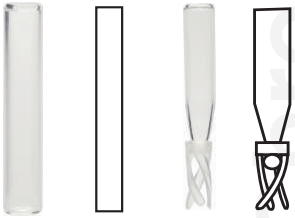
Insert Selection Guide

Solvent Compatibility	Glass is most commonly used for vial inserts. Polypropylene may be necessary when using pH sensitive samples.
Targeted Dead Volume	Mandrel point inserts provide the smallest dead volume so are suitable when minimising sample loss is important. Conical bottom inserts provide sufficient sample extraction for most applications.
Price	Flat bottom inserts are the cheapest and may be a viable option for limited sampling. Mandrel point vial inserts are the most expensive but they minimise sample loss and provide excellent injection accuracy.

Bottom Type



Flat Conical Mandrel



TC 60 A TC 60 D

0.5ml Micro Storage U-Tube Vials

Catalog	Description	Pack	9mm Screw	11mm Crimp	11mm Snap
TC-60 A	0.1 ml Micro-insert, 31 x 6mm, Clear Glass, 1st Hydrol Class, Flat Bottom, Fill Vol. 0.35	100	✓	✓	✓
TC-60 B	0.1 ml Micro-insert, 31 x 6mm, Clear Glass, 1st Hydrol Class Conical,12mm Top, Fill Vol. 0.30 (Coming Soon)	100	✓	✓	✓
TC-60 C	0.1 ml Micro-insert, 31 x 6mm, Clear Glass, 1st Hydrol Class Conical,12mm Top, Fill Vol. 0.25 (Coming Soon)	100	✓	✓	✓
TC-60 D	0.1 ml Micro-insert, 29 x 5.7mm, Clear Glass, 1st Hydrol Class Mandrel Point with assembled Plastic Spring, Fill Vol. 0.20	100	✓	✓	✓

Chromatography Vials

Colpak® ND 13 Screw Neck Vials 15 x 45mm

Why select 13mm Screw Neck Vials?

13mm vials have a 13-425 GPI thread and can hold up to 4ml of sample. They are used by the Waters 48-position autosampler and many others. All vials are manufacture with USP type 1 glass.

Colpak® 13mm Screw Neck Vials

Catalog	Description	Pack
TC-130 A	4ml Clear Glass, 15 x 45mm, 1st Hydrol Class	100
TC-130 B	4ml Clear Glass, 15x45mm, 1st Hydrol Class, Lable+Filling Lines	100
TC-130 C	4ml Amber Glass, 15 x 45mm, 1st Hydrol Class	100
TC-130 D	4ml Amber Glass 15 x 45mm, 1st Hydrol Class, Label +Filling Lines	100



TC-130 A TC-130 C

Colpak® 13mm Screw Seals

TC-136 K	PP Black Screw Cap 8.5mm Center Hole, Silicone White / PTFE Red, 1.5mm Thickness, Temperature Resistant -60°C to 200°C	100



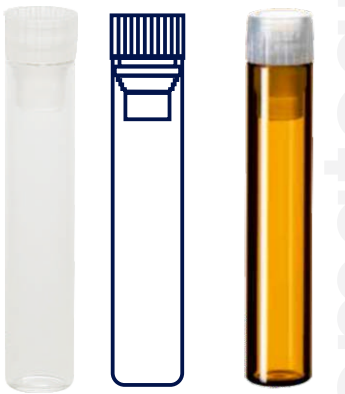
13mm Screw Septas & Caps

Colpak® Shell Vials

Why Select Shell Vials?

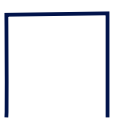
Shell vials feature thicker walls for safer sample handling. They are compatible with Waters WISPTM 48 and 96 style autosamplers. All shell vials are supplied with polyethylene plug closures - their tear-away design ensures excellent penetration and ventilation during sampling.

Catalog	Description	Pack
TC-712	1ml Shell Vial, Clear Glass, 8.2mm x 40mm, 1st Hydrol Class, 8mm PE-Plug, Soft without insertion barrier for Micro-Insert	100
TC-712 A	1ml Shell Vial, 8.2mm x 40mm, Clear Glass, 1st Hydrol Class	100
TC-712 B	8mm PE-Plug, Transparent (Without Insertion Barrier)	100
TC-712 C	0.8ml Shell Vial Clear Glass, 8.2 x 30mm, (Without PE Plug)	100
TC-712 D	1ml Shell Vial, Amber, 8.2mm x 40mm, Clear Glass, 1st Hydrol Class	100
TC-712 DB	1ml Shell Vial, Amber, 8.2mm x 40mm, Clear Glass, 1st Hydrol Class, 8mm PE-Plug, Soft without insertion barrier for Micro -Insert	100



TC - 712 TC - 712DB

8mm PE-Plug



Fire-polished Neck

Also suitable for*

Waters®

* waters is a Trademark of Waters India Pvt. Ltd.

Colpak® HeadSpace Vials

Why select Headspace Vials?

Colpak high quality headspace vials have a bevelled neck for a secure seal, uniform glass thickness for even heat distribution and a stable, strong design for even heat distribution and a stable, strong design for ease of use.

They are available with rounded or flat bottom profiles for accurate instrument compatibility. Use with the 20mm headspace caps, septas and seals. All vials are manufactured with USP type 1 glass.

Colpak® 20mm Headspace Vials

Catalog	Description	Pack
TC-200	10ml Crimp Headspace Clear Vial, 22.5 x 46mm, Flat Bottom	100
TC-200 A	20ml Crimp Headspace Clear Vial, 22.5 x 75.5mm, Flat Bottom	100
TC-200 B	20ml Crimp Headspace Clear Vial, 22.5 x 75.5mm, Round Bottom	100
TC-200 C	10ml Crimp Headspace Clear Vial, 22.5 x 46mm, Round Bottom	100
TC-200 D	20ml Crimp Headspace Clear Vial, 22.5 x 75.5mm, Rounded Bottom with write on Patch	100
TC-200 E	20ml Headspace Clear Vial, 23 x 75.5mm, Rounded Bottom for Perkin	100
TC-200 F	20ml Precision Thread Vial, 22 x 75.5mm, Rounded Bottom	100
TC-200 G	10ml Crimp Headspace Amber Vial, 22.5 x 46mm, Flat Bottom	100
TC-200 H	10ml Precision Thread Vial, 22.5 x 46mm, Rounded Bottom	100



TC- 200



TC- 200 A

Colpak® 20mm Caps & Septas

TC-202 L	Silicon White / PTFE Grey, Thickness 3mm, Temperature Resistant 60°C to 200°C	100
TC-206	10mm Center Hole, Crimp Top, Aluminium Cap	100
TC-206 L	10mm Center Hole, Crimp Top, Aluminium Cap with Silicone White / PTFE Gray	100
TC-208 K*	18mm Magnetic Precision Thread Screw Cap, 8 mm Center Hole, with Silicone White / PTFE Sky Blue, 1.5 mm	100



20mm
Aluminum
Septas & Caps



Headspace Neck
(bevelled Neck)

Colpak® 20mm Crimper

TC-209 A	Crimper for 20mm Aluminium Caps	100



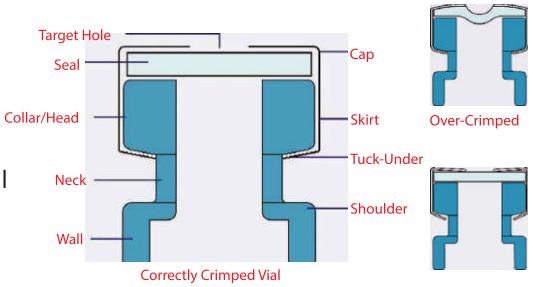
TC- 208 K
18 mm Screw Cap
Coming Soon



Correct Vial Crimping

Achieve accurate results with correctly Crimped vials.

A correctly crimped vial is neither over-crimped nor under-crimped. Over-crimping may cause coring or poor septum resealing, while under-crimping can cause evaporation problems. with proper adjustment of the vial crimpers, Perfect crimping can be achieved every time. When the vial is crimped perfectly, the cap should not be able to rotate and the septum should appear smooth and level.



Colpak® EPA Vials

Why select Screw Neck Vials(EPA)?
Broad range of EPA Vials in clear and amber glass. volume of 20ml, 30ml, 40ml and 60 ml available. EPA vials Can be obtained with any type of screw seal ND 24

Colpak® 24mm Screw Neck Vials (EPA)

Catalog	Description	Pack
TC2421A	20ml EPA Screw Neck Clear Vial, 27.5 X 57mm, 1st hydrol. Class	100
TC-2421 C	20ml EPA Screw Neck Amber Vial, 27.5 X 57mm, 1st hydrol. Class	100
TC-2431 A	30ml EPA Screw Neck Clear Vial, 27.5 X 72.5mm, 1st hydrol. Class	100
TC-2431 C	30ml EPA Screw Neck Amber Vial, 27.5 X 72.5mm, 1st hydrol. Class	100
TC-2441 A	40ml EPA Screw Neck Clear Vial, 27.5 X 95mm, 1st hydrol. Class	100
TC-2441 C	40ml EPA Screw Neck Amber Vial, 27.5 X 95mm, 1st hydrol. Class	100

All Products are Class - 100 products as per EPA Standard



20ml



40ml

Colpak® 24mm Septas & Caps

Catalog	Description	Pack
TC244L	PP Screw Cap, white, centre hole, silicone white/PTFE beige, 45° shore A, 3mm	100
TC244BOL	PP Screw Cap, white, centre hole, silicone white/PTFE beige, Bonded Septas (EPA - Qulity)	100
TC244BOD	PP Screw Cap, white, centre hole, silicone white/PTFE beige, Bonded Septa with dust shield	100



White Open Top with Liner

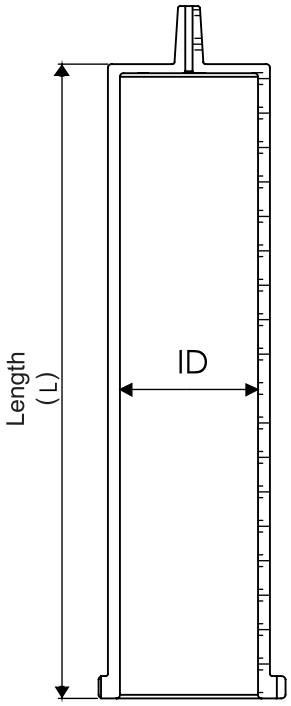
GlassPE Empty Solid Phase Extraction Glass Columns / Blanks



Features

- Solid Phase Extraction (SPE) Empty Column Blanks / Cartridges / Cylinders are Made of Borosilicate Glass USP Type I glass
- Custom sizes also available (made to order).
- Available Sizes

Catalog	Size	I.D (±0.10mm)	Length (L)	Packing
25-02-01-00	0.5ml	4.65	70.00±0.50mm	10 pcs
25-04-01-00	1ml long	4.65	86.50±0.50mm	10 pcs
25-03-01-00	1ml short	5.65	58.50±0.50mm	10 pcs
25-07-01-00	3ml	9.15	74.00±0.50mm	10 pcs
25-08-01-00	8ml	12.10	74.00±0.75mm	10 pcs
25-09-01-00	12ml	15.00	94.00±0.75mm	10 pcs
25-10-01-00	20ml	20.05	102.00± 0.75mm	10 pcs
25-11-01-00	30ml	22.50	114.00± 1.00mm	10 pcs
25-13-01-00	60ml	27.95	129.00±1.00mm	10 pcs
25-15-01-00	100ml	35.80	156.00±1.00mm	10 pcs



Customisation

- **Customised printing such as Scale, Logo, Brand Name, Etc are available.**
- **Chose from a variety of colours .**
- **Mountings - 6% Luer Taper as per ISO 594**

*We would be glad to manufacture as per your proprietary designs.
*Contact us Today with your enquiry.

1) Haemometer (SAHLI type) & Accessories

The Shandilya brand haemometer housing is moulded from thermo-setting phenol formaldehyde resin which makes it resistant to most laboratory reagents. It is also very convenient to handle, light in weight, and gives unlimited service.

Catalog No.	Description	Pack
31-00-001	Prismatic, Square Tube with precision 20cm pipette	Each
31-00-002	Plano parallel, Square Tube with precision 20cm pipette	Each
31-01-002	Plano parallel, Round Tube with precision 20cm pipette	Each

The permanent non-fading colour standards are made with optical precision for accurate and exact matching of colour. They are comparable with international master colour standards of haemoglobin values. They never fade or get discoloured.



2) Square Tubes

Made up of hard borosilicate glass with permanent non filing scales on two opposite sides, one in yellow and another in red. Yellow colour scale indicates absolute value of gms/100cc and red one indicates value of haemoglobin percentage in blood. Conforms to IS 9430

Catalog No.	Description	Pack
31-00-003	Square Tube	10



3) Round Tubes

Made up of hard borosilicate glass with permanent non fading scales on two opposite sides, one in yellow and another in red. Yellow colour scale indicates absolute value of gms/100cc and red one indicates value of haemoglobin percentage in blood. Conforms to IS 9430

Catalog No.	Description	Pack
31-01-102	Round Tube	10



4) Round Tube for Superior Haemometer

Superior as per German Specification

Catalog No.	Description	Pack
31-01-202	Round Tube	10



5) Wintrobe Tubes

Made of hard borosilicate corning glass with uniform bore so as to avoid breakage during centrigugation.Very useful in determining packed cell volume of blood. Conforms to IS 3741

Catalog No.	Description	Pack
31-00-005	Wintrobe Tubes	10



6) Zero Error 20cmm Pipettes

An Accurate pipette with uniform capillary bore for easy blood delivery. It is sterilisable either by hot air or by steam sterilizer. It is marked at 20cmm.

Catalog No.	Description	Pack
31-00-004	Zero Error 20cmm Pipettes	10



Glass Stirring Rod

Made from exp glass with rounded ends for extra safety and to minimise.



Catalog No.	Thickness	Length
SP-60-A	3mm	100mm
SP-60-B	3mm	200mm
SP-61-B	4mm	200mm
SP-63-B	6mm	200mm

Accessories For Hemocytometer

1) RBC (Red Blood Cell) Pipette

The RBC pipette is generally known as the diluting pipette used in the dilute blood ratio of '1:100' or '1:200' in the Hemocytometer.

Catalog No.	Description	Pack
SP-702R	RBC	12



2) WBC (White Blood Cell) Pipette

WBC Pipette is also used for the mixing up of the dilute fluid and blood. Draw EDTA anticoagulated blood to 0.5 mark in the capillary end of WBC pipette and Draw diluting fluid up to 11 mark

Catalog No.	Description	Pack
SP-702W	WBC	12



ESR Esrite Kit

The kit comprises of non-corroding, washable polypropylene interlocking stand with provision to simultaneously hold 5 or 10 pipettes. The Esrite pipettes are manufactured from hard borosilicate glass, to international standards using special uniform bore technology. The ESR tubes are ground at the bottom, perfectly cylindrical and accurate to micron tolerances to give leak proof closure in the blood sample vial. Anodized aluminum screen with permanent blue scale helps easy reading of sedimentation rate.

Esrite Kit

Catalog No.	Description	Pack
33-00-001	Esrite Kit, New Esrite 5 with 5 Esrite Pipettes and 25 Vials	Each
33-00-002	Esrite Kit, New Esrite 10 with 10 Esrite Pipettes and 50 Vials	Each

Accessories for Esrite Kit

Catalog No.	Description	Pack
33-01-001	Esrite Pipettes	5
33-02-002	Esrite Sample Filling Vials	25

Westergren Pipettes (ESR)

The pipettes are made of hard borosilicate glass with uniform bore and are used for finding out Erythrocyte Sedimentation Rate. Conforms to ISO 3741

Catalog No.	Description	Pack
31-00-006	Westergren Pipettes	10







PolyEsrite

Single Use Westergren Erythrocyte Sedimentation Rate (E.S.R) Pipette

PRODUCT DESCRIPTION :

Type : Westergren Erythrocyte Sedimentation Rate (ESR) Pipette
Usage : Disposable, single-use
Material : Made from polystyrene
Measurement Range : 0-180mm
Feature : Porous self sealing filter tip

•HOW TO USE:

1. PREPRATION:

•Gather all necessary materials and equipment, including the ESR pipette, blood sample, Westergren stand and anticoagulant (usually sodium citrate)

2. BLOOD SAMPLE COLLECTION:

•Collect the blood sample using standard phlebotomy techniques
•Mix 4 parts blood with 1 part sodium citrate solution

3. FILING THE PIPETTE:

•Insert the pipette into the mixed blood sample
•Allow the blood to rise to the zero mark on the pipette through capillary action
•Ensure there are no air bubbles in the sample within the pipette

4. SEALING:

•Secure the silicon plug at the top of the pipette to prevent leakage

5. POSITIONING:

•Place the filled and sealed pipette vertically in the Westergren stand
•Ensure the pipette is stable and not tilted

6. READING THE RESULT:

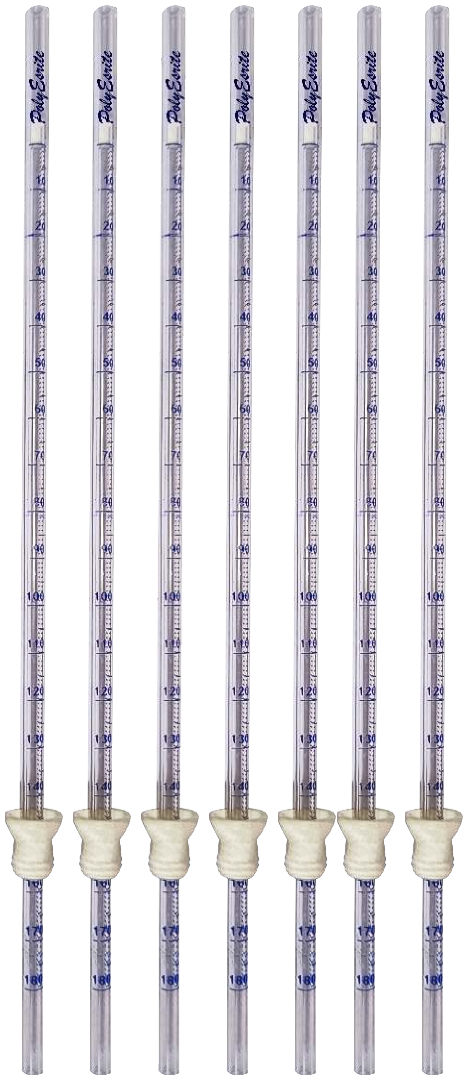
•Allow the pipette to stand undisturbed for the required time, typically 1 hour
•After the specified time, read the level of settled erythrocytes (red blood cells) at the top of the sediment column
•Record the ESR value in millimeters (mm)

7. DISPOSAL:

•After use, dispose of the pipette in accordance with local biohazard waste disposal regulations.

BENEFITS :

•Single-Use Convenience: Eliminates the need for cleaning and sterilization, reducing the risk of contamination
•Accurate Measurements: Provides reliable and precise ESR readings within the 0-180mm range, following the Westergren method
•Durable Material: Made from polystyrene, which is resistant to breakage and chemical reactions
•Cost-Effective: Reduces costs associated with cleaning, maintenance, and potential cross-contamination
•Easy to Handle: Lightweight and ergonomically designed for comfortable use
•Safety: The porous self secure seal, preventing spills and leaks.
•Standardized Testing: Compiles with the Westergren method, ensuring standardized and widely accepted ESR results



Catalog No.	Description	Pack
34-10-001	Poly Esrite Disposable E.S.R Pipette	100 pcs

TOP SYRINGE
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