

TOP SYRINGE

MANUFACTURING COMPANY PRIVATE LIMITED

Laboratory

DaVinci

Repetitive Dispensing Syringes

Laboratory Glass Syringes

TRÜTH



Colpak®

Chromatography Vials, Caps, Septas

Manufacturer and Exporter Since 1964

www.top-syringe.com

LABORATORY GLASS SYRINGE

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CHROMATOGRAPHY VIALS CAPS SEPTAS

VIALS, CAPS, SEPTAS

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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 mill and 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.

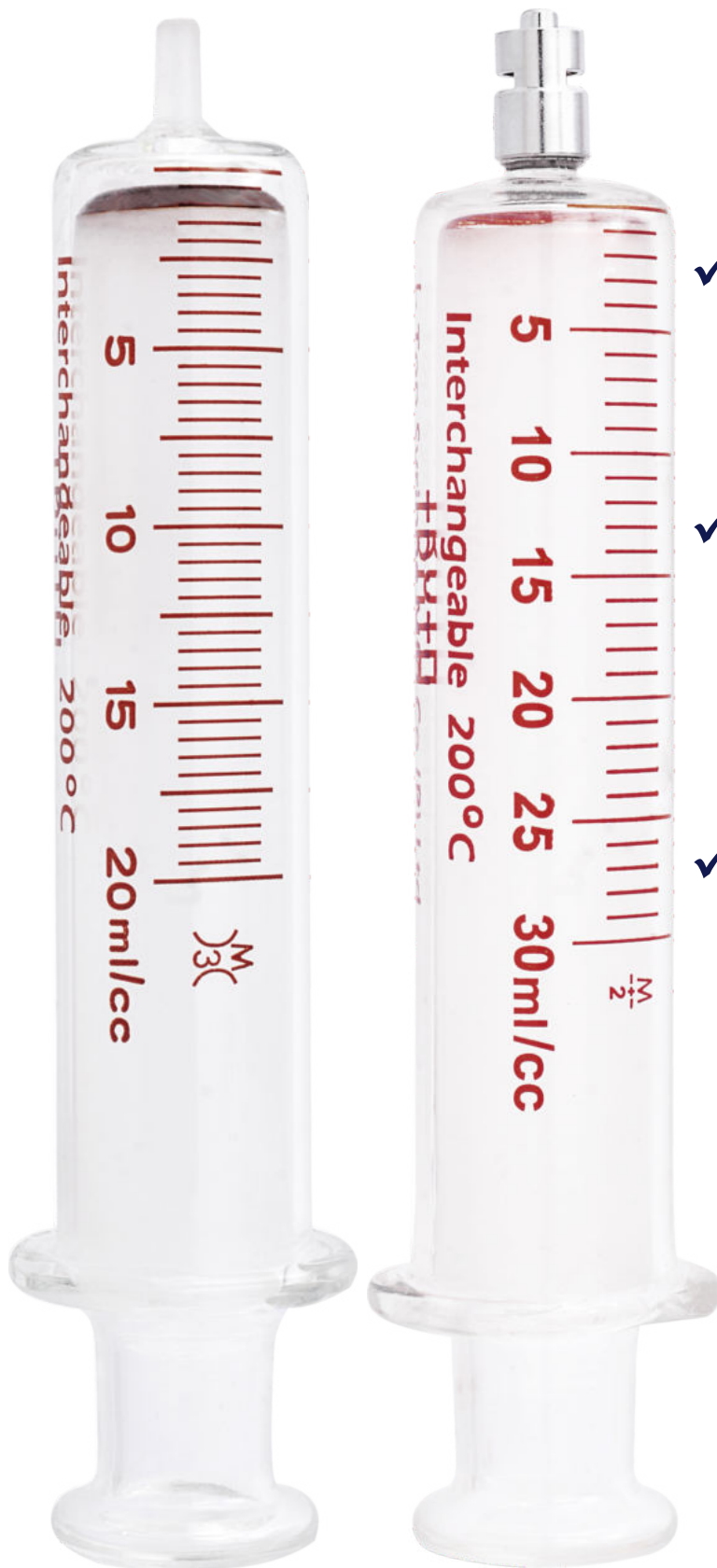
This catalog is dedicated to our range of Laboratory Glass Syringes.

Our other group companies manufactures glass pharmaceutical packaging product and laboratory heating and cooling equipments.



We Supply on OEM term as well

Glass Syringes



- ✓ Standard Laboratory Liquid Handling Instrument
- ✓ For Filtration Process (Fits into any Brand of Syringe Filter)
- ✓ Stable with Hazardous Chemicals



Autoclavable

TRÜTH PLS Glass Syringes

- P**recision Pressure Tested : Withstands higher pressure
- L**aboratory Loss of resistance : 100% jerk free movement (smooth)
- S**yringe Small Graduations : Fine graduation markings (upto 0.01ml)

Calibration Certificate Provided with each syringe as required for 3rd party audits

TRÜTH PLS Syringes feature internally frosted individually barrels and plungers. Matching serial numbers on barrel and plunger ensure easy assembly on superior performance. The opaque frosted look becomes clear when in contact with liquid. On drying, it regains the frosted look. These syringes can withstand higher temperatures and pressures. These syringes are individually packed box.

The Barrel of the glass syringe is made out of hard borosilicate Glass that has outstanding chemical resistance. This material also provides a heat resistance suitable for dry heat sterilization and good wear resistance. High machining precision is used to maintain slideability between barrel and plunger.

The main features include

- These Syringes have a fine Graduation
- Extremely air tightness and can hold a particular pressure
- Smooth functioning and movement during drawing and injection offering a jerk free experience
- A certificate of calibration is provided with each Syringe
- Also available with 3 Ring for better control & handling pressure and viscous substances on request.
- Autoclavable at 121°C

TRÜTH Glass Luer Tip (CT)



Old Cat. No.	New Cat. No.	
04-01-01-01	04-01-01-01	0.25ml / 0.01ml / 10pcs
04-02-01-01	04-02-01-01	0.5ml / 0.01ml / 10pcs
04-04-01-02	04-04-01-01	1ml / 0.01ml / 10pcs
	03-06-01-03	2ml / 0.05ml / 10pcs
	03-08-01-04	5ml / 0.1ml / 10pcs
	03-09-01-04	10ml / 0.1ml / 10pcs
	03-10-01-06	20ml / 0.5ml / 10pcs
	03-13-01-06	50ml / 0.5ml / 6pcs
	03-15-01-06	100ml / 0.5ml / 1pc

TRÜTH Metal Luer LockTip (CL)



Old Cat. No.	New Cat. No.	
04-04-02-02	04-04-02-01	1ml / 0.01ml / 10pcs
03-06-02-03	03-06-02-03	2ml / 0.05ml / 10pcs
03-08-02-05	03-08-02-04	5ml / 0.1ml / 10pcs
03-09-02-05	03-09-02-04	10ml / 0.1ml / 10pcs
03-10-02-06	03-10-02-06	20ml / 0.5ml / 10pcs
03-13-02-08	03-13-02-06	50ml / 0.5ml / 6pcs
03-15-02-08	03-15-02-06	100ml / 0.5ml / 1pc

Technical Details

	Graduation Scale			Max Pressure Rating	
	Total	Major	Minor	Bars	PSIG
2ml	100	0.2ml	0.02ml	3.00	43.50
5ml	50	1ml	0.1ml	3.00	43.50
10ml	100	1ml	0.1ml	2.00	29.00
20ml	40	5ml	0.5ml	2.00	29.00
50ml	100	5ml	0.5ml	1.50	21.76
100ml	200	5ml	0.5ml	1.50	21.76

Temperature : • Max. 50°C/122°F • Min. 10°C/50°F

Certificate

With Each Syringe Provided

121°C



Coming Soon SS Luer Lock

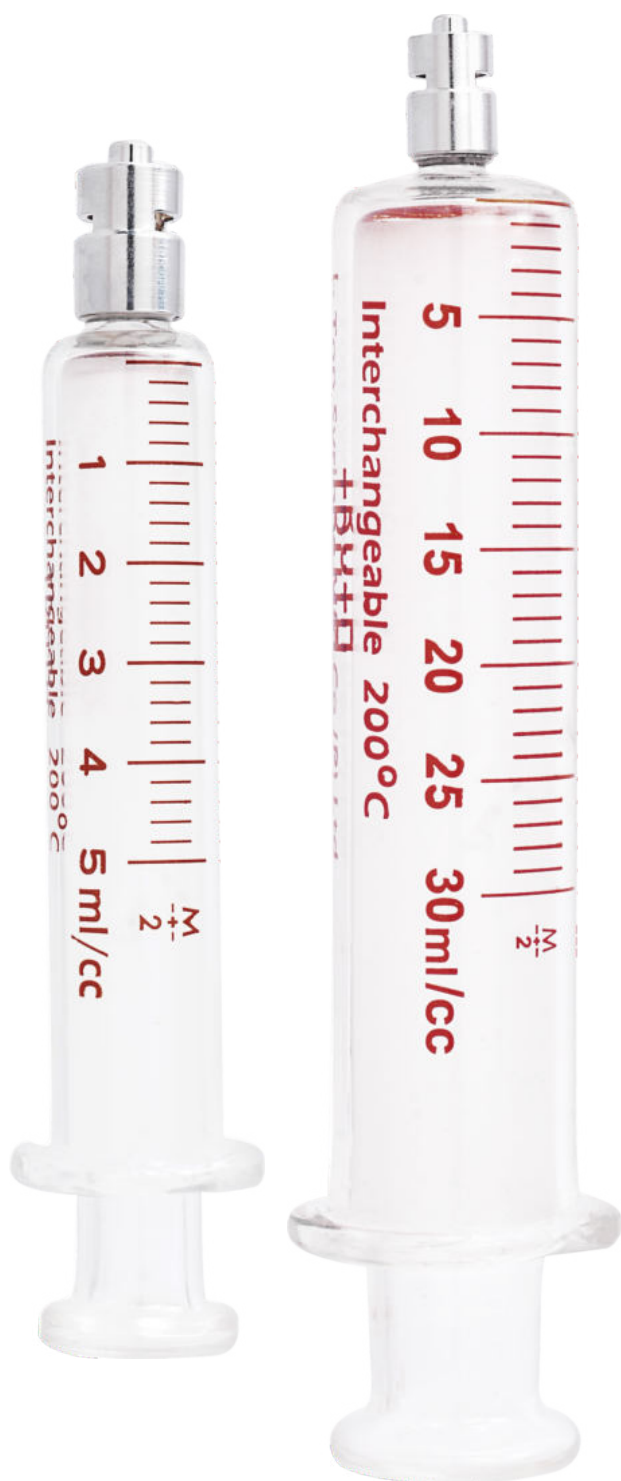
Also Available with 3 Finger Ring on request



Glass Syringe with Metal luer slip tips are available on request




TRÜTH Interchangeable Glass Syringes



TRÜTH Interchangeable Syringes are manufactured to ensure the perfect matching of barrels and plungers. Any Interchangeable syringe of a

particular size will fit any Interchangeable barrel of the same size. The syringes ensure easy filling and perfect matching of barrels and plungers.

Features :

- Interchangeable part of the syringe provide instant assembly without any sorting during bulk sterilization and hence improves operational efficiency.
- Precision shrinking ensures improved leak free smooth operation.
- Colored plunger facilitate dosage measurements.
- Made from borosilicate glass providing protection against thermal shock.
- Corrosion resistant.
- Graduations marks permanently fused into glass barrel.
- Truncated flanges prevent syringe from rolling.
- Special graduation on request.
- We Supply on OEM term as well 

TRÜTH Interchangeable Syringe 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 / 6pcs
01-13-01-08	50ml / 2ml / 6pcs
01-15-01-08	100ml / 2ml / 1pc
NEW 01-16-01-08	150ml / 2ml / 1pc



TRÜTH Interchangeable Syringe Metal Luer Lock Tip (CL)

01-03-02-03	1ml / 0.1ml / 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 / 6pcs
01-13-02-08	50ml / 2ml / 6pcs
01-15-02-08	100ml / 2ml / 1pc
NEW 01-16-02-08	150ml / 2ml / 1pc



★ Metal Luer Tip On Request



TRÜTH Control Glass Syringes & Metal Piston Syringes



Control Glass Syringes with 3 finger ring,
Glass or Stainless Steel Piston & Rubber
Ring

Reusable injection glass syringe for human and
veterinary medicine

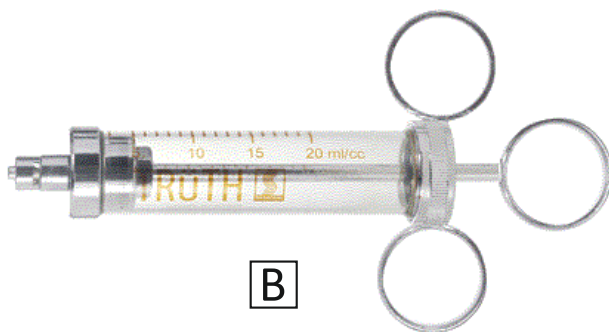
- ✓ Single hand operation in lab
- ✓ For Filtration application with any brand of
syringe filter
- ✓ Luer lock attachment to secure needle

Features :

The 3 ring offers better grip while holding the syringe &
administering the dose.

Solid glass / metal version.

Graduated glass syringe with precision cut.



Control Syringe with SS Piston

Ground-in piston with 'O' ring made of stainless steel
for Item 2, 3, 4 Autoclavable (134°C or 273°F).

Luer Lock attachment to secure needle.

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 plunger.

There is no danger of breakage if glass syringe is not
taken to pieces for sterilizing.

The plunger is smooth and so ensures enhanced
tightness.

A

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

19-05-02-04	2ml / 0.1ml / 1pc
19-07-02-04	3ml / 0.1ml / 1pc
19-08-02-05	5ml / 0.2ml / 1pc
19-09-02-05	10ml / 0.2ml / 1pc
19-10-02-06	20ml / 0.5ml / 1pc
19-13-02-08	50ml / 2ml / 1pc

B

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

19-30-02-05	10ml / 0.2ml / 1pc
19-31-02-06	20ml / 0.5ml / 1pc
19-32-02-08	50ml / 2ml / 1pc

TRÜTH Record Glass Syringes

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



Metal Record Tip	Capacity	Packing
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 Luer Lock Tip	Capacity	Packing
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

FEATURES :

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

Coming Soon SS Piston without 'O' ring

TRÜTH Hormone Manufacturing Syringes

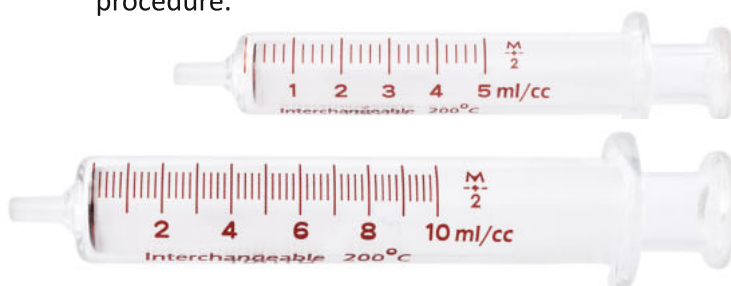
Hormone Manufacturing in tablet or capsule is a very critical process as these are the special chemical messengers in the body which controls most major bodily functions, from simple basic needs like hunger to complex systems like reproduction, and even the emotions and mood.

Pharma companies that manufacture Hormones have to take special care so as to not contaminate the Hormones due to faulty tools that may be used in the manufacturing process.

A Glass Syringe is recommended by USP to transfer the aliquot from dissolution apparatus to conical flask for further addition of chemicals. Plastic generally reacts to pure concentrate Hormones like ETHYLENE ESTRADIOL etc.

Advantages :

- 100% Borosilicate glass, hence 100% inert.
- Can withstands Hormone PH 1.5, 2.5 etc.
- No rubber or metal part to contaminate.
- Recommended to use only once as 100% cleaning is not possible in reprocessing procedure.



Cat. No.	Graduation Scale
01-08-01-05	5ml / 0.2ml / 10pcs
01-09-01-05	10ml / 0.2ml / 10pcs

TRÜTH Filling Syringes Wide Mouth Syringes

Glass Syringes for Filling Machines are manufactured from hard borosilicate glass and are precisely calibrated for accuracy. They are designed

to fit most of the commonly used ampoules, vials & bottle filling machines.

TRÜTH Wide Mouth Glass Tip

Cat. No.	Graduation Scale
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 / 6pcs
16-13-04-08	50ml / 2ml / 6pcs
16-15-04-08	100ml / 2ml / 1pc

TRÜTH 1/4 UNF Thread Tip Glass Syringes

Cat. No.	Graduation Scale
23-07-13-04	3ml / 0.1ml / 10pcs
23-08-13-05	5ml / 0.2ml / 10pcs
23-09-13-05	10ml / 0.2ml / 10pcs
23-10-13-06	20ml / 0.5ml / 10pcs
23-11-13-07	30ml / 1ml / 6pcs
23-13-13-08	50ml / 2ml / 6pcs
23-15-13-08	100ml / 2ml / 1pc

TRÜTH 3/8 UNF Thread Tip Glass Syringes

Cat. No.	Graduation Scale
23-07-14-04	3ml / 0.1ml / 10pcs
23-08-14-05	5ml / 0.2ml / 10pcs
23-09-14-05	10ml / 0.2ml / 10pcs
23-10-14-06	20ml / 0.5ml / 10pcs
23-11-14-07	30ml / 1ml / 6pcs
23-13-14-08	50ml / 2ml / 6pcs
23-15-14-08	100ml / 2ml / 1pc

TRÜTH 180° Cut Center Hole Syringe

Cat. No.	Graduation Scale
16-13-56-08	50ml / 2ml / 6 pcs.
16-15-56-08	100ml / 2ml / 1 pcs.



Cut / Open Barrel available on request.

Glass Syringes

B

TRÜTH Toomey 'Allo' Endoscopy Syringe With Nozzle

18-13-12-08	50ml / 2ml
18-15-12-08	100ml / 2ml
18-16-12-08	150ml / 2ml

C

TRÜTH Toomey 'Allo' Endoscopy Syringe Without Nozzle

18-13-00-08	27211LO		50ml / 2ml
18-15-00-08	27212LO		100ml / 2ml
18-16-00-08	27212LO		150ml / 2ml

D

TRÜTH Toomey 'Allo' Nozzle Only

00-00-12-00



B



C



D

Reiner - Alexander Glass Syringe



E

E

TRÜTH Reiner - Alexander Glass Syringe with Nozzle



18-52-12-08	50ml / 2ml
18-26-12-10	75ml / 2ml
18-27-12-08	100ml / 5ml
18-28-12-08	150ml / 2ml

TRÜTH Reiner - Alexander Glass Syringe without Nozzle

18-52-00-08		50ml / 2ml
18-26-00-10	27215LO	 75ml / 5ml
18-27-00-08	27216LO	 100ml / 2ml
18-28-00-08	27218LO	 150ml / 2ml

TRÜTH Bladder Glass Syringes

These syringes are suitable for endoscopic attachment. Bladder Glass Syringes, has metal adaptor which is reinforced in the glass barrel. Standard adaptors are compatible with endoscopes of Wolf.

- TRÜTH Richard Wolf Bladder Glass Syringes has metal adaptor which is reinforced in the glass barrel.
- Compatible with endoscopes of 
- Custom made adaptors can also be made available upon request.
- Suitable for endoscopic attachment for post operative aspiration.
- As Per  Article no 822.40-150m.

TRÜTH Bladder Syringe With Cone 'B' Nozzle & Glass Plunger

24-13-20-08	50ml / 2ml
24-15-20-08	100ml / 2ml
24-16-20-08	150ml / 2ml

Used for Post Operative Aspiration as mentioned in Endoscope Reprocessing Guides consisting of the following steps:

1. Pre-cleaning
2. Manual Cleaning
3. Rinsing
4. High Level Disinfection
5. Re-Rinsing &
6. Drying



TRÜTH Bladder Syringe With Cone 'B' Nozzle & Metal Plunger *

24-27-20-08	100ml / 2ml
24-28-20-08	822.40  150ml / 2ml

* On Request

Brief Points for Cleaning the Toomey 'Allo' & Bladder Glass Syringes

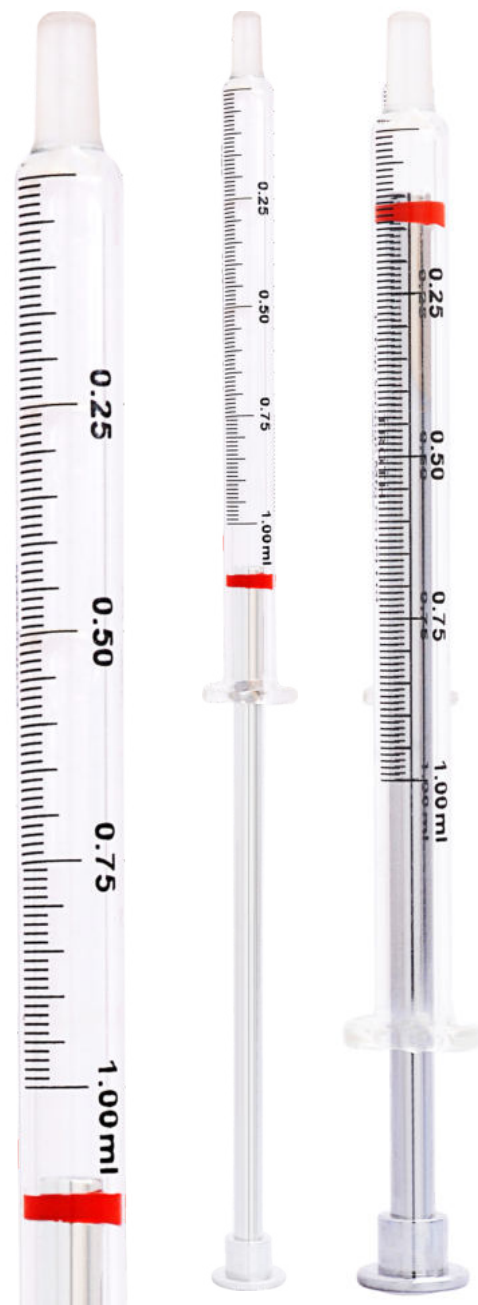
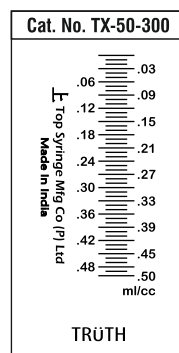
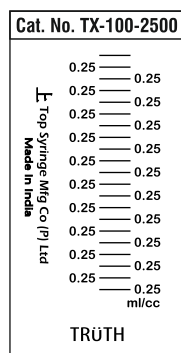
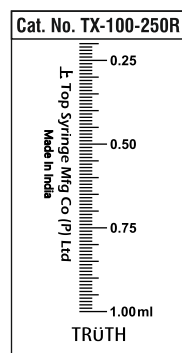


Inox TRÜTH Intra Cerebral Inoculation Syringe

Top Syringe Mfg Co (P) Ltd has developed a special Inox TRÜTH Glass Syringe used during Intra cerebral inoculation especially during the testing of the protective potency of serum against live virus introduced in subject.

The Inox TRÜTH Glass Syringes are offered in 0.5ml and 1ml size. The components used for these syringe include a glass barrel, silicone O ring and a metal plunger rod. All these components are inert and there is no plastic reaction which could take place thus maintaining the potency of the serum at all times during the testing phase.

The graduation allows the closing of the requisite amount required for Intra cerebral inoculation that can be administered in a mouse. Customer have been successfully using the Inox TRÜTH syringes during testing of various vaccines including DTP Vaccine, Anti rabies vaccine, Pneumococcal conjugate vaccine, Measles-Rubella Vaccine etc. Generally the syringe can be reused as per protocol. AS per our customers' feedback, it can be reused up to 5 times.



Size	Catalog No.	Description
1 ml	TX-100-250R	1 ml in 4 major graduations at 0.25 ml, 0.50 ml, 0.75ml & 1 ml with minor markings at 0.01 ml intervals
1 ml	TX-100-2500	1 ml with continuous graduations marking of 0.025 ml 40 times
0.5 ml	TX-50-300	0.5 ml with marking at 0.03 ml, 0.06 ml, 0.09 ml upto 0.50 ml
27G	TX-27-38	Needle 27G x 3"8 inch

Glass Syringes

TRÜTH Gas Tight Syringes

TRÜTH 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. This feature is particularly useful with heterogeneous samples as it reduces the chance that a deposit will occur and cause the plunger to freeze.



TRÜTH Gas Tight Syringe Operating Parameters

Volume		2.5ml	5ml	10ml	25ml	500ml	1000ml
Scale length, mm		60	60	60	60	151.0	155
Total scale divisions		100	100	100	100	250	50
Major graduations, mL		0.5	0.5	1.0	2.5	100	100
Minor graduations, mL		0.1	0.1	0.2	0.5	20	20
Sub-Minor graduations, mL		0.05	0.05	0.1	0.25		
Maximum temperature	°C	115	115	115	115	80	80
	°F	239	239	239	239	176	176
Minimum temperature	°C	10	10	10	10	0	0
	°F	50	50	50	50	32	32
Maximum Pressure rating	bars	14	14	14	7	2	2
	psig	200	200	200	100	30	30



LTFN - Luer tip
Fixed Needle



LT - Luer Tip


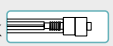






1/4"-28UNF"



TLL - Teflon
Luer Lock

Syringe Terminations

Terminations	Abbrev	Catalog				Autoclavable at 115°C
		2.5ml	5ml	10ml	25ml	
Luer Tip 	LT	42-24-01-73	42-08-01-73	42-09-01-74	42-30-01-75	Yes if disassembled
PTFE Luer Lock 	TLL	42-24-65-73	42-08-65-73	42-09-65-74	42-30-65-75	Yes if disassembled
UNF 	1/4"-28 UNF	42-24-67-73	42-08-67-73	42-09-67-74	42-30-67-75	Yes if disassembled
Fixed Needle Beveled 	LTFN	42-24-66-73	42-08-66-73	42-09-66-74	-	No
Fixed Needle Blunt 	LTFNB	42-24-68-73	42-08-68-73	42-09-68-74	-	No
Zero Dead Volume 	ZDV	-	-	42-09-70-74	-	No

(V6 Syringe, 6cm)

Zero Dead Volume

Syringe Designed for Customer's Instruments

The 6cm V6 syringe is designed and manufactured under stringent manufacturing and quality standards.

SPECIFICATION AND QUALITY

The required quality of a syringe depends on the application and conditions of use. We have to take these conditions into consideration. At the design stage to produce the most suitable syringe.

- kind of solution used
- cycle of piston movement of plunger
- operating temperature
- power of motor for plunger action
- method of fitting to the equipment
- tolerance of dimensions

ACCURACY

The annealed 3.3 borosilicate glass barrel maintains stable and enduring sampling. High uniformity of barrel dimension and mirror finished surface provide an accuracy and reproducibility within $\pm 1\%$.

MANUFACTURING

Precision manufacture of each part (holder, glass barrel and plunger) ensures a smooth plunger action, accurate sampling and extended plunger PTFE tip life. Our superior processing techniques in glass, metal and plastics can meet any original specifications. A wide variety of materials are available for different applications.

- Stainless steel: SUS303, 304 and 316 etc.
- Plastic: PTFE, PCTFE, UHMW

Physical

Length: 4.37"

End Cap: 1/4-28 Plunger Button: XL style

Optimal Internal Pressure 80 PSI

Environmental

Storage Temperature: 50°F to 104°F (10°C to 40°C)

Operating Temperature: 13°F to 185°F (-25° to 85°C)

Humidity: up to 100%

Chemical

Wetted Materials:

Borosilicate Glass, Kel-F (CTFE), Teflon (PTFE), UHMW (optional tip material), Lubricated with Medical grade lubricant

ZERO DEAD VOLUME SYRINGE

are used in various Field requiring
PRECISION INJECTION

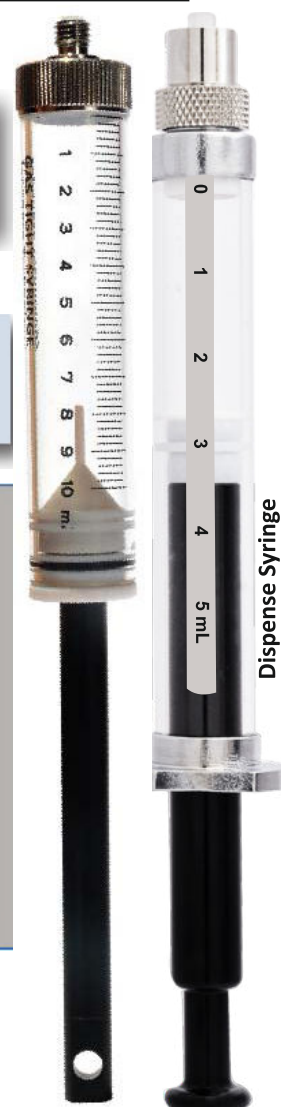
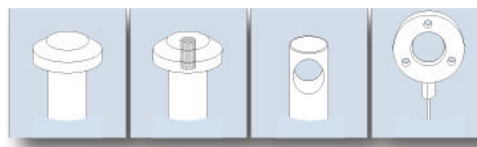
- ✓ **Chromatography**
- ✓ **Biochemical Filed**
- ✓ **Medical Inspection**
- ✓ **Industrial Instruments**
- ✓ **Diagnostics**

- ✓ **For Parallel Samples**
- ✓ **Withdrawal & Doasge in MultiSyringe Pumps**
- ✓ **Dissolution Pump**

SYRINGE HEAD SHAPES



PLUNGER HEAD SHAPES



(Coming Soon V3 Syringes)

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 pulmonary 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 .



Description	Needle Hub	Model No.
500 mL PTFE Luer Lock Syringe	Metal	S - 500
1.0 Liter PTFE Luer Lock Metal Syringe	Metal	S - 1000
1.5 Liter PTFE Luer Lock Metal Syringe	Metal	S - 1500
2.0 Liter PTFE Luer Lock Metal Syringe	Metal	S - 2000

DGA Glass Syringe

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 Liquids 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, and to determine if it complies with company specifications.

An Oil Sample has to be a representative and maintain the properties & 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 & Long Life of the apparatus.

Tests include :

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

Sampling the Oil to be Tested is the FIRST concern which will ensure 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 & executed prior to the leaving the On-Site.

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



DGA Glass Syringes

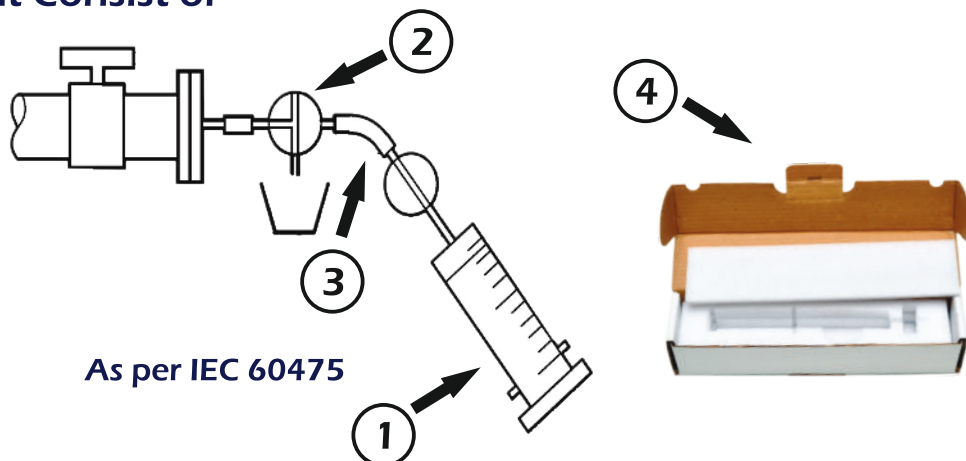
NEW TRÜTH DGA Glass Syringe for Transformer Oil Sampling as per IEC 60475 Section 4.2.2.2

Size	1ml	2ml	5ml	10ml
Catalog No.	09-04-02-02	09-05-02-03	09-08-02-05	09-09-02-05
Description	1ml, TRÜTH DGA Glass Syringes, Match Number, Metal Luer Lock Tip, 0.02ml Graduation	2ml, TRÜTH DGA Glass Syringes, Match Number, Metal Luer Lock Tip, 0.05ml Graduation	5ml, TRÜTH DGA Glass Syringes, Match Number, Metal Luer Lock Tip, 0.2ml Graduation	10ml, TRÜTH DGA Glass Syringes, Match Number, Metal Luer Lock Tip, 0.2ml Graduation
Piston Outside Diameter	4.7mm ±0.2mm	6.50mm ±0.2mm	12.13mm ±0.2mm	14.98mm ±0.2mm
Barrel Outside Diameter	7.2mm ±0.2mm	9.8mm ±0.2mm	15.5mm ±0.2mm	18.4mm ±0.2mm
Barrel Collar Diameter	12.75mm ±0.75mm	16.50mm ±0.75mm	22.75mm ±0.75mm	26.75mm ±0.75mm
Overall Length	120.00mm ±0.75mm	121.00mm ±1.00mm	113.00mm ±1.00mm	134.00mm ±1.00mm
Graduation Increment	0.02ml	0.05ml	0.2ml	0.2ml
Volume	1ml ±1.5% of volume	2ml ±1.5% of volume	5ml ±1.5% of volume	10ml ±1.5% of volume
Picture				

TOSIN Kit Consist of






TRÜTH Brand

1. Glass Syringe : 1ml, 2ml, 5ml, 10ml, 20ml, 30ml, 50ml, 100ml, 150ml
2. TOSIN Nylon stopcock 3 way, 2 way
3. TOSIN Tygon Tube with connector
4. TOSIN Padded Carrying Cases
5. TOSIN Un-vented Male Plug Cap



DGA Glass Syringes

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

Size	20ml	30ml	50ml	100ml	150ml
Catalog 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	41.20mm ±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	150.00mm ±1.00mm	163.00mm ±1.00mm	178.00mm ±0.100mm	215.00mm ±1.50mm	262.00mm ±1.50mm
Graduation 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
Picture					

Other sizes of 200ml, 250ml, 500ml, & 1000ml available on request

* Specifications are subject to change without prior notice.

Our Valuable Clients



DGA Glass Syringes

Features of TRÜTH Glass Syringes for DGA

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-D 3613
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

1. TOSIN Nylon Stopcocks

Catalog No.	Description
09-25-17-00	TOSIN 3 way Nylon Stopcock

Features

1. Made of 100% Nylon
2. Two female ports and one male port
3. Two female ports designed to accept Luer Lock fitting
4. Manufactured in accordance with IEC-60475, IEC-60567 & ASTM-D 3613
5. Rugged Construction
6. Manufactured to meet strict ANSI standards
7. Our quality control ensures that the valves will perform reliably



09-25-17-00
3 way Stopcock

2. TOSIN Padded Carrying Cases

Catalog No.	Description
30-10-00-00	20ml TOSIN Padded Carrying Case
30-13-00-00	50ml TOSIN Padded Carrying Case
30-15-00-00	100ml TOSIN Padded Carrying Case
30-16-00-00	150ml TOSIN Padded Carrying Case

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

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

Features

1. Rugged Construction
2. Accept Luer Lock fitting
3. Meets ANSI standards



09-25-19-00

4. TOSIN Tygon Tubes With Connector

Catalog No.	Description
09-25-16-00	TOSIN Tygon Tube With Connector



30-13-00-00



09-25-16-00

Advantages of Taking Transformer Oil Samples with the TOSIN Kit

1. Easy flushing prior to sampling
2. Clear visual inspection
3. Free from Suspended Particles and impurities When oil samples is collected in the syringe, contaminants such as suspended solids or free water if any can be seen in the syringe. These oils can be expelled out immediately & fresh oil sample can be taken so as to take the correct samples back to the lab for accurate test results. This cannot be seen in side another container like vacuum bottles.
4. Easy adjustment to avoid direct contact with Air (100% Air tight) If the sample comes in contact with humid air, the readings of the oil samples will show high atmospheric gases and high moisture hence not providing for an accurate result. The Syringe is air tight and can hold the oil sample in the syringe not allowing it to come in contact with any air. If there is a small leak in the sampling tubing or connections, the vacuum bottles will draw air into the sample, which, cannot be seen inside the bottle. If any bubbles are seen in the syringe, they can be expelled out immediately. Any extra air can be seen and expelled thus maintain integrity of the collected sample
5. Integrity Any contraction and expansion in the sampled oil, will only move the plunger backward or forward without having any air bubble formation
6. Easy identification Of color of the oil sample
7. Easy identification for the need of Resampling
8. Protection from direct sunlight/ diffused Light The oil collected in the Glass syringes is protected from direct sunlight by packing the syringe filled with the Oil in the padded carrying cases.
9. Easy handling & convenient transportation
10. First choice under IEC regulations 60475 & IEC
11. Consistent & Accurate reading of Test Results

Transformer Oil Sampling Stainless Steel Bottle

Oil Sampling SS Bottles Transformer Oil sampling SS Bottles are suitable for collection of oil samples from Transformers & Reactors (as specified in IEC 60475 Section 4.2.5) for a variety of tests as mentioned in IEC 60475 Section 4.2.1.5 including.

- **FEATURES:**
- Oil Sampling SS Bottles Transformer Oil sampling SS Bottles are made of Stainless Steel S.S.304. These bottles are constructed with thick heavy duty steel.
- The assembly comprises of S.S. Needle valve (1/4" BSP) & Adapter fitted on either side of the bottle. The needle Valves are 100% leak proof & are tested at pressure of 300 PSI
- The bottle can be sealed gas tight with the help of needle valves.
- All accessories fitted with the bottle are also made of Stainless Steel.
- Tested Pressure from 1500 to 2500 PSI
- Draws the Oil In Positive Pressure
- As per IS 9434:1992
- The bottle is designed to ensure that loss of hydrogen will not exceed 5% per week.
- Test certificate provided along with the product.
- Oil Sampling SS Bottles Transformer Oil sampling SS Bottles can also be made of Stainless Steel S.S.316 on customer's request
- Oil Sampling SS Bottles Transformer Oil sampling SS Bottles can be Custom made as per customer's design.

TRANSFORMER OIL SAMPLING SS BOTTLES



Catalog No.	Description	Catalog No.	Description
TI-OSB-0300	300ml TOSIN Stainless Steel Bottle	TI-OSB-1500	1500ml TOSIN Stainless Steel Bottle
TI-OSB-0500	500ml TOSIN Stainless Steel Bottle	TI-OSB-2000	2000ml TOSIN Stainless Steel Bottle
TI-OSB-1000	1000ml TOSIN Stainless Steel Bottle		

Glass Syringes

HPLC Glass Syringe

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

Best Suited for THF [(CH)₄O] (Tetrahydrofuran) Handling in the Lab.



Catalog No	Description	Packing
01-03-01-03	1ml HPLC Glass Syringe, 0.05ml Graduation	10

Amber Syringes

TRÜTH In order to be able to work with light sensitive media the glass syringes with luer lock tip are available with amber stain diffused cylinder.



Capacity	Glass Luer Tip	Metal Luer Lock Tip	Graduation
5ml	20-08-01-05	20-08-02-05	0.2ml
10ml	20-09-01-05	20-09-02-05	0.2ml

TRÜTH Toomey Evacuating / Irrigation Glass Syringes

The Toomey evacuating syringe is fitted with a nickel plated catheter tip and is useful in irrigating applications including the testing of Esomeprazole capsules as per USFDA.

TRÜTH Toomey 'Allo' Endoscopy Glass Syringes

Toomey 'Allo' Glass Syringes, has metal adaptor which is reinforced in the glass barrel. Standard adaptors are compatible with endoscopes of STORZ. These syringes are suitable for endoscopic attachment.

- Toomey 'Allo' syringes have metal adaptor which is reinforced in the glass barrel.
- Compatible with endoscopes of **STORZ** KARL STORZ - ENDOSKOP
- Custom made adaptors can also be made available upon request.
- Suitable for endoscopic attachment for post operative aspiration.
- As Per **STORZ** Article no 27211LO-50ml, 27212LO-100ml

Used for Post Operative Aspiration as mentioned in Endoscope Reprocessing Guides consisting of the following steps:

1. Pre-cleaning
2. Manual Cleaning
3. Rinsing
4. High Level Disinfection
5. Re-Rinsing &
6. Drying



A

TRÜTH Toomey Evacuating / Irrigation Glass Syringes (Metal Base Tip)

10-13-09-08 50ml / 0.2ml / 10pcs

10-15-00-08 100ml / 0.2ml / 10pcs



TRÜTH Reusable Needles

Catalog No.	Size & Length
TN-0414B	14 G x 4"
TN-0316B	16 G x 3"
TN-0616B	16 G x 6"
TN-0816B	16 G x 8"
TN-1216B	16 G x 12"
TN-0417B	17 G x 4"
TN-0617B	17 G x 6"
TN-0817B	17 G x 8"
TN-1017B	17 G x 10"
TN-1217B	17 G x 12"
TN-0318B	18 G x 3"
TN-0418B	18 G x 4"
TN-0618B	18 G x 6"
TN-0818B	18 G x 8"
TN-1018B	18 G x 10"
TN-1218B	18 G x 12"
TN-0319B	19 G x 3"
TN-0419B	19 G x 4"
TN-0619B	19 G x 6"
TN-0819B	19 G x 8"
TN-1019B	19 G x 10"
TN-1219B	19 G x 12"
TN-0822B	22 G x 8"
TN-1022B	22 G x 10"
TN-0223B	23 G x 2"
TN-0423B	23 G x 3"
TN-0623B	23 G x 6"
TN-0823B	23 G x 8"
TN-1023B	23 G x 10"
TN-1223B	23 G x 12"

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



TRÜTH Pipetting Reusable Needle with Bevels

14-25-32-31	2ml / 20G x 1½"
14-25-32-32	0.5ml / 16G x 4"
14-25-32-33	10-20ml / 14G x 4"
65-35-48-36	50ml / 15G x 5"

Special Needles Available on request

A variety including standard hypodermic needle, veterinary needles, laboratory needles, blunt needles, animal research also available on request.

Requirements with Specific gauges, lengths and types available on request including Stainless Steel hubs used during special applications and working with corrosive materials or critical procedures.

Kindly enquire with us today for your special needles and we shall be glad to cater them to you.

Your requests for OEM are also welcomed.

Please mail us on sales@top-syringe.com

Liquid Handling

“DaVinci” Laboratory Repetitive dispensing syringe

- Automatic Filling of Each Preset Dose
- Autoclavable at 121°C for 20 minutes.
- Durability
- Reliability

Sizes:
0.05ml to 10ml

- Comfort

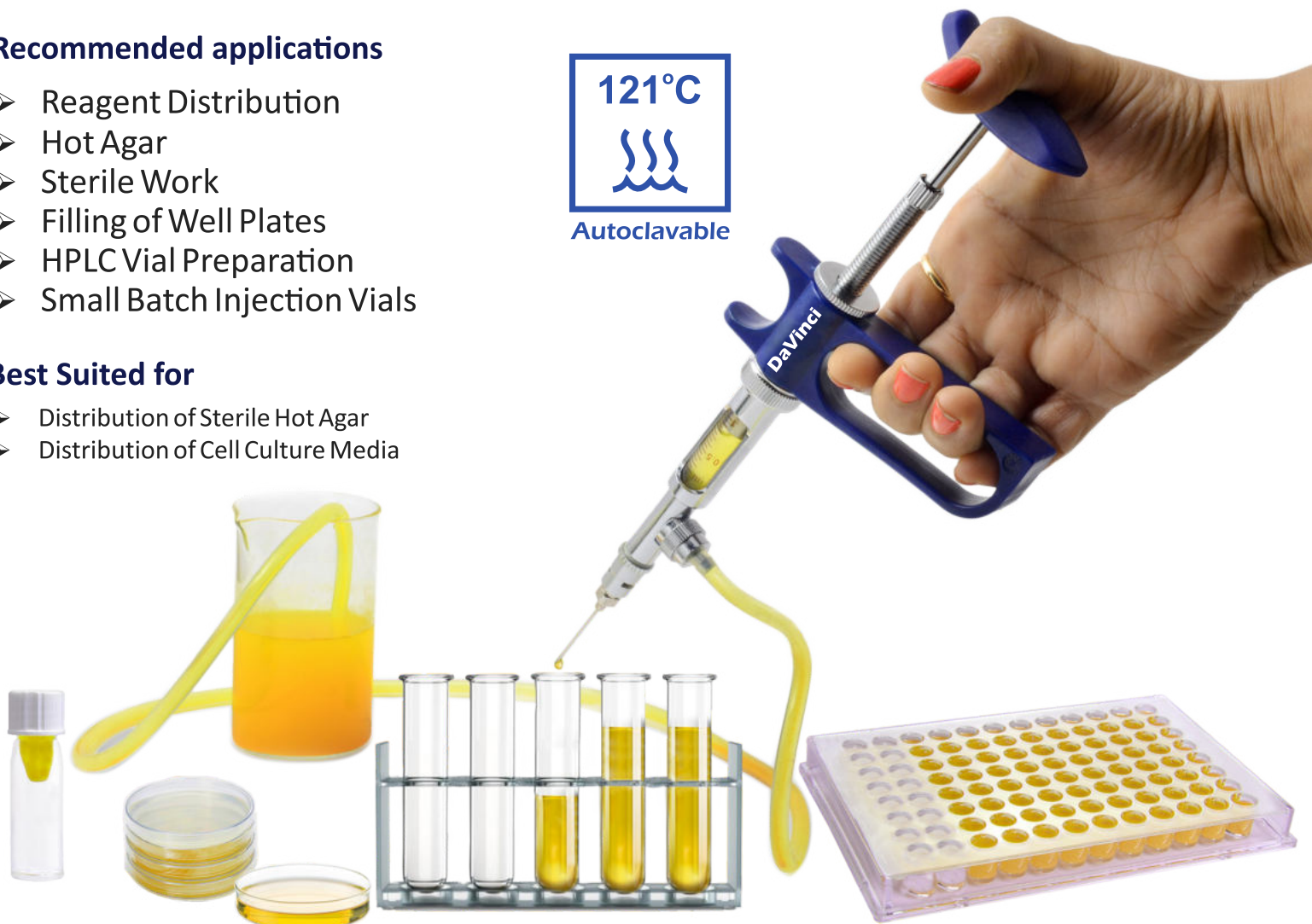
Recommended applications

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



Best Suited for

- Distribution of Sterile Hot Agar
- Distribution of Cell Culture Media



Features

1. Plunger Tightness without O-Ring – Hence no contamination when it comes in contact with drug / liquid
2. Glass Barrel & SS plunger – Inert Ensures long life
3. Clear visibility of Dose
4. Fully Autoclavable
5. No Need of servicing with Silicone Oil – Same effortless movement is ensured every time.
6. Liquid Path 100% inert
7. Long Lasting
8. Light weight & easy to use
9. Fast & reliable volume selection
10. Packed individually in a convenient attractive box along with instruction manual

TOP SYRINGE					
DaVinci					
Self Refilling Syringe					
Catalogue No: 70-09-23-29		Calibration Date:			
Serial No:		Humidity: %			
Syringe Model:		Temperature: °C			
Feed Tube Set - Utility		Syringe volume: 0.5ml			
Vial Holder Set - Utility		1ml			
Vial Holder Set - Utility		2ml			
Vial Holder Set - Utility		5ml			
Vial Holder Set - Utility		10ml			
Test	Parameter		Result		
Autoclave Calibration	at 121 Deg C		✓		
Precision (CV%)	Volume range (ml)	Division (ml)	Precision (CV%)	Min. Vol.	Max. Vol.
	0.1 - 0.5	0.1	<1.2%	<0.4%	<0.4%
	0.1 - 1	0.05	<0.7%	<0.4%	<0.4%
	0.3 - 2	0.1	<0.6%	<0.4%	<0.4%
	0.5 - 5	0.5	<0.5%	<0.2%	<0.2%
	1 - 10	1.0	<0.5%	<0.2%	<0.2%
This calibration was performed pursuant to Top Syringe Manufacturing Company Pvt. Ltd. standard calibration process. This document can not be reproduced partially. The Top Syringe Quality System is EN ISO 9001:2008 certified.					
Date: _____					
Checked By			Approved By		

Calibration Certificate
provided with each Syringe

The DaVinci self refilling syringe line offers precision instruments you can rely upon. Intended for safe and reliable liquid distribution, the selection comes in a range of volumes. One-year warranty. The DaVinci syringe is an excellent solution for accurate delivery of repetitive fixed doses without any errors during use.

This self refilling syringe is most effective when worked in the laboratory. The Comfortable Grip and ergonomic design ensure fatigue free working during serial precision dosing. The fast and reliable volume selection ensures highly accurate dosing. The robust construction makes it easily autoclavable.

1) DaVinci Self Refilling Syringe (Feed Tube Set) 70 Series



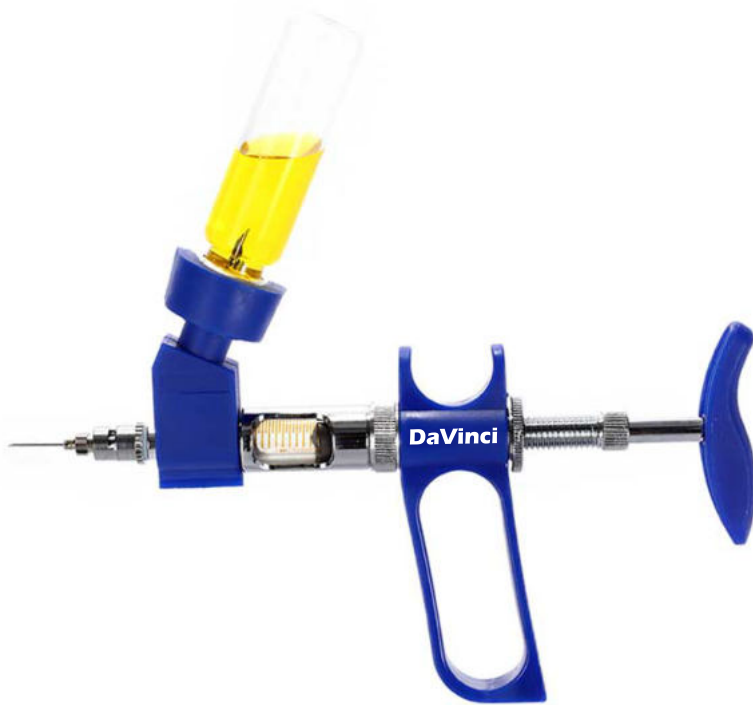
This product is for use with feed tube. This model comes with accessories that facilitates repetitive dosing from bottles or jars using feed tubes, sinker valve, feed cannula etc. The sinker valve ensures it reaches and stays at the bottom of the jar during the time of usage. This would ensure that the 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.

Catalog No	Size	Volume	pcs
70-02-23-29	0.5ml	0.05ml	1pc
70-04-23-29	1ml	0.05ml	1pc
70-05-23-29	2ml	0.1ml	1pc
70-08-23-29	5ml	0.25ml	1pc
70-09-23-29	10ml	1.00ml	1pc

2) DaVinci Self Refilling Syringe (Vial Holder Set) 71 Series



Catalog No	Size	Volume	pcs
71-02-23-30	0.5ml / 0.05ml	1pc	
71-04-23-30	1ml / 0.05ml	1pc	
71-05-23-30	2ml / 0.1ml	1pc	
71-08-23-30	5ml / 0.25ml	1pc	

The DaVinci Vial Self Refilling syringe is another liquid feeding model. Consisting of a vial holder, integrated vented needle, locking ring and bottle lock, this 'Vial Holder' model is used to draw liquid out of the original liquid manufacturer's vial. The Vial Holder body is at an optimal angle. The locking ring on the vial ensure the vial does not get dis engaged from the Vial Holder body. The integrated vented needle ensure smooth operation of the dosing. The detachable slant Vial Holder Body fits standard vials. The safety locking nut ensure reliable and highly accurate repetitive pre-fixed dose dispensing

3) DaVinci Twin Self Refilling Syringe 77 Series



The DaVinci Twin Syringe is used during simultaneous administration of specific liquids. Each side consists of its own barrel & vavle assembly. Volumes adjusted separately. Needle spacing 28mm

Catalog No	Size	Volume	pcs
77-02-23-29	0.5ml / 0.05ml	/ pc	
77-04-23-29	1 ml / 0.05ml	/ pc	
77-05-23-29	2ml / 0.1 ml	/ pc	
77-08-23-29	5ml / 0.25ml	/ pc	

DaVinci's Spares Glass Barrel, Grounded, Interchangeable

75-02-00-50	0.5ml / 0.05ml / 1pc
75-04-00-50	1ml / 0.05ml / 1pc
75-05-00-50	2ml / 0.1ml / 1pc
75-08-00-50	5ml / 0.25ml / 1pc
75-09-00-50	10ml / 1.00ml / 1pc



Spare bag includes Springs, Balls, Washer for Valve & Barrel

75-02-00-45	0.5ml / 1pc
75-04-00-45	1ml / 1pc
75-05-00-45	2ml / 1pc
75-08-00-45	5ml / 1pc
75-09-00-45	10ml / 1pc



Feed Tube

75-45-00-46	0.5-10ml / 1pc
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DaVinci Cannulas

Short Vent Cannulas

73-38-44-35	0.5-10ml / 1pc
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Long Feed Cannulas

75-31-49-35	0.5-10ml / 1pc
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DaVinci Viscous Spring

75-05-00-55	2ml / 1pc
75-08-00-55	5ml / 1pc

DaVinci Protection Sleeve

75-02-00-51	0.5ml / 1pc
75-04-00-51	1ml / 1pc
75-05-00-51	2ml / 1pc
75-08-00-51	5ml / 1pc
75-09-05-51	10ml / 1pc



Product Advantage

- Simple and natural movements:** The activation of the DaVinci 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.
- 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 121C (250F).
- 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.
- Low maintenance:** The DaVinci 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.

Parts in contact with liquid

Parts in contact with liquid	Material
Feed Tubing	Silicone
Glass Barrel	Borosilicate Glass
Washer, Barrel	FPM
Plunger	Stainless steel
Valve System	Ni-Cr Brass
Washer, Valve	PTFE
Spring and ball valve	Stainless steel
Sinker and feed cannula	Ni-Cr 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	Silicon oil
2	400 (up to 600) ¹⁾	Glycerol
5	150 (up to 200) ¹⁾	SAE 20 oil
10	20	Cream

Test conditions to determine max. viscosity

Syringe with horizontal feed tubing
Syringe set at maximal volume
Aspiration time < 3 sec.

Liquid Handling

Media Dispensing CORTO Pipectors Precision Lab Liquid Handling



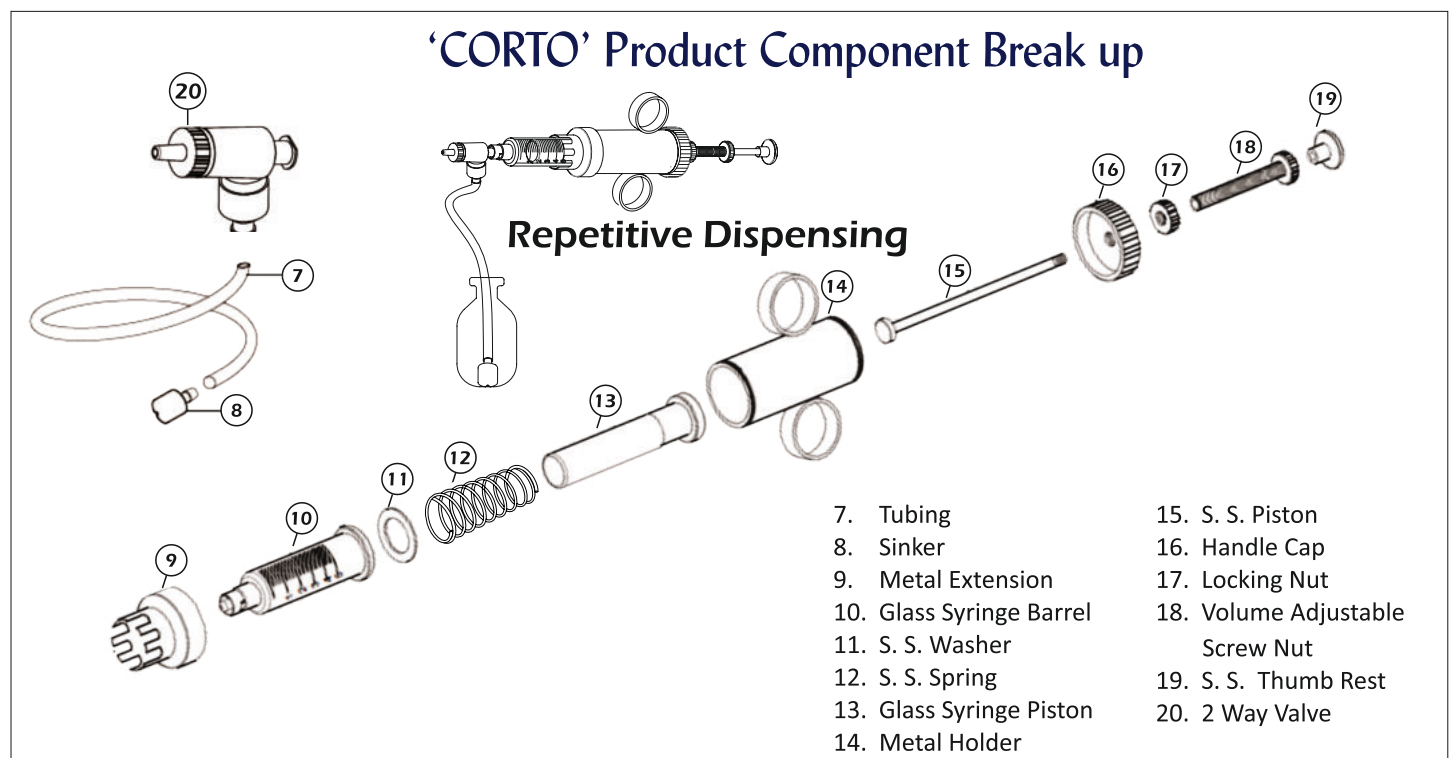
- Simple screw adjustment for accurate volume setting.
- Automatic return of spring loaded plunger to preset volume for quick repeat dispensing.
- Convenient finger-holds for effortless single hand operation.
- Filling assembly attachment enables continuous refilling from reservoir and repetitive delivery of preset volumes.
- Unique design of stainless steel bivalve and sinker ensures smooth, leakproof liquid transfer.
- Simple Natural Movements
- Plunger Tightness without 'O' Ring
- Volume Selection
- Low Maintenance

The 'CORTO' Glass Syringe Pump is a Repetitive dispenser for fluid transfer that facilitates repeatable dosage distribution. The System offers a user-friendly design for fluid transfer - without the capital investment required for filling pumps. 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.

'CORTO' Glass Syringe Pipettors, have contoured finger rings and thumb rest that allows effortless, non-fatiguing one-handed operation. These features provide for self-refilling, allowing continuous pipetting from a single liquid reservoir. The pipettors are easily assembled. All units are autoclavable and are ideal for use with sterile media during aseptic techniques.



'CORTO' Product Component Break up



Media Dispensing CORTO Pipttors Precision Lab Liquid Handling

Unlimited Applications:

- ✓ Lab Repetitive Sample Preparation
- ✓ Fluid Transfer
- ✓ Hazardous Chemicals handling
- ✓ Dose by Dose Distribution
- ✓ Dispensing Distribution
- ✓ Sterile work
- ✓ Animal Injection

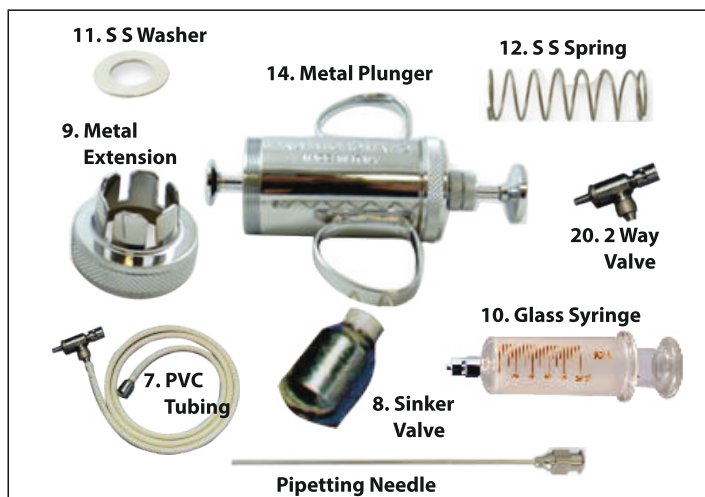
'CORTO' Syringe Kit

14-05-30-00	2ml / 0.05ml / 1pc
14-08-30-00	5ml / 0.25ml / 1pc
14-09-30-00	10ml / 0.50ml / 1pc
14-10-30-00	20ml / 1ml / 1pc

On Request 50ml

CORTO Glass Syringe pipettor units feature durable spring loaded syringe assemblies, automatic 2-way valves, Replacement syringes fit interchangeably into both CORTO Glass Syringe pipetting assemblies as well as BD Cornwall Pipetting Outfits.

* BD Cornwall is a registered trademark of Becton Dickinson and Company.



'CORTO' Spares

TRÜTH 'CORTO' Glass Syringe Metal Luer Lock Tip (CWCL)

14-05-02-03	2ml / 0.05ml / 10pcs
14-08-02-05	5ml / 0.2ml / 10pcs
14-09-02-06	10ml / 0.5ml / 10pcs
14-10-02-07	20ml / 1ml / 10pcs

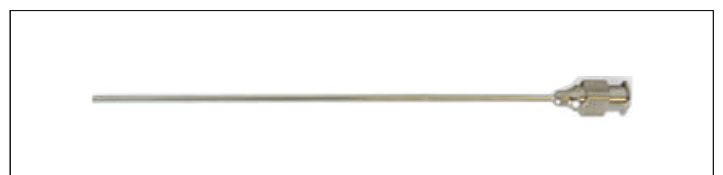
Laboratory Reusable Needles – Pipetting & Hypodermic

Pipetting needles are available in the following choices in laboratory procedures. All needles are made with type 304 stainless steel cannulae and are 90° blunt end needles. Needles are fitted with standard nickel plated luer hubs. These needles are used in conjunction with both manual and automatic volumetric dispensers, dilutors, and pipettors.

Pipetting reusable needles with Blunt Tips are offered as follows

TRÜTH Pipetting Reusable Needle with Bevels

14-25-32-31	2ml / 20G x 1½"
14-25-32-32	0.5ml / 16G x 4"
14-25-32-33	10-20ml / 14G x 4"
65-35-48-36	50ml / 15G x 5"



Special Needles Available on request

A variety including standard hypodermic needle, veterinary needles, laboratory needles, blunt needles, animal research also available on request. Requirements with Specific gauges, lengths and types available on request including Stainless Steel hubs used during special applications and working with corrosive materials or critical procedures. Kindly enquire with us today for your special needles and we shall be glad to cater them to you. Your requests for OEM are also welcomed. Please mail us on sales@top-syringe.com

TRÜTH Enema Glass Syringes



Enema Syringes are favorite to Proctologists & Gastro Enterologists or forced enema application. These Syringes are also suitable in Pediatric feeding. Available in 50ml Capacity.

TRÜTH Enema Syringe Enema Glass Tip

15-13-10-10

50ml / 5ml

*Other sizes on request

TRÜTH Insulin Glass Syringes



TRÜTH Insulin Glass Syringes come with special marking of 1ml = 40 units, & 2ml = 80 units & 100 units respectively.

TRÜTH Insulin Syringe Center All Glass Tip (CT)

08-03-01-11

1ml Short/ Units

08-04-01-11

1ml Long / Units

08-05-01-11

2ml / Units

TRÜTH Insulin Syringe Metal Luer Lock Tip (CL)

08-04-02-01

1ml Long / Units

08-05-02-01

2ml / Units

ND9 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.

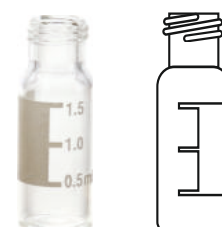
9mm screw caps have an advantage over 11mm crimp caps because 9mm screw caps can easily be applied and removed by hand and they can be reused. All vials are manufactured with USP type 1 glass.

Colpak® 9mm Short Screw Thread Vials, Wide Opening

Catalog No	Description	Packing
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



TC-90 D



TC - 91 ERB

Colpak® 9mm Short Screw Thread Septas & Caps

Catalog No	Description	Packing
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

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

Catalog No	Description	Packing
TC-94 BOA	PP Blue Knurled Short Screw Thread Cap, 6mm Center Hole with Bonded Silicone White / PTFE Red	100
TC-94 BOG	PP Blue Knurled Short Screw Thread Cap, 6mm Center Hole with Bonded Silicone White / PTFE Red Pre-Slit	100

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

Catalog No	Description	Packing
TC90AP94BOG	12 x 32mm, Clear Glass, 1st Hydrol Class, Wide Opening, Pre Screwed PP Blue Knurled Short Screw Thread Cap, 6mm Center Hole with Bonded Silicone White / PTFE Red with Pre-Slit	100



9mm Short Screw
Threads
Septas & Caps

HPLC Glass Syringe

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

Catalog No	Description	Packing
01-03-01-03	1ml HPLC Glass Syringe, 0.05ml Graduation	10



*Other varieties available on request

ND11 Crimp Neck Vials 12 x 32mm

Why Select 11mm Crimp Neck Vials?

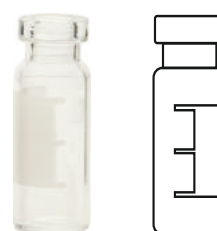
Crimp caps provide the tightest seal, reducing the chance of sample evaporation. The 12x32mm crimp vials and 11mm aluminium crimp caps are economical and easy to use with crimping tools. All vials are manufacture with USP type 1 glass.

Colpak® 11mm Crimp Neck Vials

Catalog No	Description	Packing
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

Catalog No	Description	Packing
TC-117	Aluminium Cap 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 and convenient handling
- Chemically resistant surface finish especially designed for the application in labs
- Hardened crimping jaws made of a special alloy that guarantees long life

Catalog No	Description	Packing
TC-119 A	Crimper for 11mm Aluminium Caps	1



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 volatile 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 manufacture with USP type 1 glass.



TC-110 SA



TC-110 SB



TC-110 SD

11mm Snap Ring
Septas & Caps

Colpak® 11mm Snap Ring Vials

Catalog No	Description	Packing
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

Colpak® 11mm Snap Ring Seals

Catalog No	Description	Packing
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

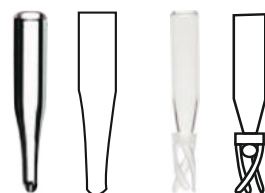
Colpak® Micro Inserts

Catalog No	Description	Packing
TC-60 A	0.2ml Micro-Insert, 31 x 6mm, Clear Glass, 1st Hydrol Class, Flat Bottom, Fill Vol. 0.35	100
TC-60 B	0.1ml Micro-Insert, 31 x 6mm, Clear Glass, 1st Hydrol Class, Conical, 12mm Top, Fill Vol. 0.30 (Coming Soon)	100
TC-60 C	0.1ml Micro-Insert, 31 x 6mm, Clear Glass, 1st Hydrol Class, Conical, 12mm Top, Fill Vol. 0.25 (Coming Soon)	100
TC-60 D	0.1ml Micro-Insert, 29 x 5.7mm, Clear Glass, 1st Hydrol Class, Mandrel Point with assembled Plastic Spring, Fill Vol. 0.20	100



TC 60 A

TC 60 B



TC 60 C

TC 60 D

Colpak® HPLC / Autosampler Vials

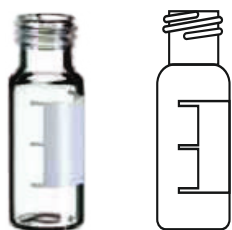
ND 8 Screw Neck Vials 12 x 32mm

Why Select 8mm Screw Neck Vials?

8mm (8-425) screw neck vials are the original smaller opening autosampler vials manufacture with USP type 1 glass. They are designed to work in a variety of autosamplers requiring narrow neck vials.



TC-80 A



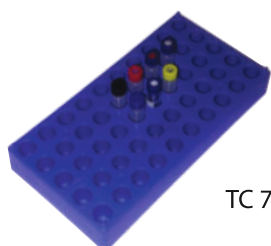
TC-80 B



TC-80 D



8mm Screw
Septs & Caps



TC 70

Colpak® 8mm Screw Neck Vials

Catalog No	Description	Packing
TC-80 A	12 x 32mm, 1st Hydrol Class Clear Glass, Small Opening	100
TC-80 B	12 x 32mm, 1st Hydrol Class Clear Glass, Small Opening ,Label + Filling Lines	100
TC-80 C	12 x 32mm, Amber Glass, Small Opening	100
TC-80 D	12 x 32mm, Amber Glass, Small Opening, Label + Filling Lines	100

Colpak® PP 8mm Screw Seals

Catalog No	Description	Packing
TC-84 KA	PP 8mm Black Knurled Screw Cap, 5.5mm Center Hole Silicone White / PTFE Red, Thickness 1.5mm, Temperature Resistant -60°C to 200°C	100
TC-84 KD	PP 8mm Black Knurled Screw Cap, 5.5mm Center Hole Silicone White / PTFE Light Blue, Thickness 1.5mm, Temperature Resistant -60°C to 200°C	100

Colpak® Vials Rack

Catalog No	Description	Packing
TC-70	PP Vial Rack 182 x 92 x 16mm, 50 cavities with 12mm diameter	1

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.

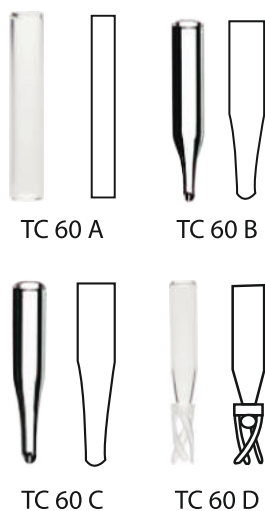
The Insert is neckless and always has to be used within a vial. The diameter of the Insert depends on the size of the vial opening. Inserts reduces the volume, so that the needle is capable of picking up even smallest sample quantities. The larger the top of an insert, the more the volume can be reduce.

Bottom Type

Insert Selection Guide

			Solvent Compatibility	Glass is most commonly used for vial inserts. Polypropylene may be necessary when using pH sensitive samples.
Flat	Conical	Mandrel	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.

Catalog	Description	Packing	9mm Screw	11mm Crimp	11mm Snap
TC-60 A	0.2ml Micro-Insert, 6 x 31mm, Clear Glass, 1st Hydrol Class, Flat Bottom, Fill Vol. 0.35ml	100	✓	✓	✓
TC-60 B	0.1ml Micro-Insert, 6 x 31mm, Clear Glass, 1st Hydrol Class, Conical, 12mm Top, Fill Vol. 0.30ml (Coming Soon)	100	✓	✓	✓
TC-60 C	0.1ml Micro-Insert, 6 x 31mm, Clear Glass, 1st Hydrol Class, Conical, 15mm Top, Fill Vol. 0.25ml (Coming Soon)	100	✓	✓	✓
TC-60 D	0.1ml Micro-Insert, 5.7 x 29mm, Clear Glass, 1st Hydrol Class, Mandrel Point with assembled Plastic Spring, Fill Vol. 0.20ml (Coming Soon)	100	✓	✓	✓



Catalog No	Description	Packing
TC-60 A	0.2ml Micro-Insert, 31 x 6mm, Clear Glass, 1st Hydrol Class, Flat Bottom, Fill Vol. 0.35	100
TC-60 B	0.1ml Micro-Insert, 31 x 6mm, Clear Glass, 1st Hydrol Class, Conical, 12mm Top, Fill Vol. 0.30 (Coming Soon)	100
TC-60 C	0.1ml Micro-Insert, 31 x 6mm, Clear Glass, 1st Hydrol Class, Conical, 12mm Top, Fill Vol. 0.25 (Coming Soon)	100
TC-60 D	0.1ml Micro-Insert, 29 x 5.7mm, Clear Glass, 1st Hydrol Class, Mandrel Point with assembled Plastic Spring, Fill Vol. 0.20	100

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.



TC-130 A



TC-130 B



TC-130 D

Colpak® 13mm Screw Neck Vials

Catalog No	Description	Packing
TC-130 A	4ml Clear Glass, 15 x 45mm, 1st Hydrol Class	100
TC-130 B	4ml Clear Glass, 15 x 45mm, 1st Hydrol Class, Label + 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



13mm Screw
Septas & Caps

Colpak® 13mm Screw Seals

Catalog No	Description	Packing
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

Colpak® Shell Vials

Why Select Shell Vials?

Shell vials feature thicker walls for safer sample handling. They are compatible with Waters WISP™ 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.



TC - 712

TC - 712DB



8mm PE-Plug

Fire-polished
Neck

Catalog No	Description	Packing
TC-712	1ml Shell Vials, 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 Vials, Amber Glass, 8.2mm x 40mm, 1st Hydrol Class, 8mm PE-Plug, Soft without insertion barrier for Micro-Insert	100

Also suitable for*

Waters®

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

Colpak® Headspace Vials

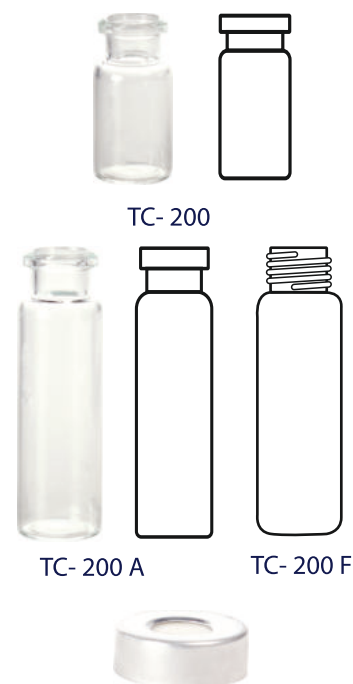
Why Select Headspace Vials?

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 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 manufacture with USP type 1 glass.

Colpak® 20mm Headspace Vials

Catalog No	Description	Packing
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, Round Bottom with write on patch	100
TC-200 E	20 ml Headspace Clear Vial 75.5 x 23mm, Rounded Bottom for Perkin (Coming Soon)	100
TC-200 F	20 ml Precision Thread Vials, 75.5 x 22mm, Rounded Bottom	100



Colpak® 20mm Caps & Septas

Catalog No	Description	Packing
TC-202 L	Silicon White / PTFE Grey, Thickness 3mm, Temperature Resistant - 60°C to 200°C	100
TC-206	10mm Center Hole, Crimp Top, Aluminum Cap	100
TC-206 L	10mm Center Hole, Crimp Top, Aluminium Cap with Silicone White / PTFE Gray	100
TC-208 K*	18 mm Magnetic Precision Thread Screw Cap, 8 mm Center Hole, with Silicone White / PTFE Sky Blue, 1.5 mm. (Coming Soon)	100

20mm
Aluminum
Septas & Caps

Headspace Neck
(bevelled Neck)

TC- 208 K
18 mm Screw Cap
Coming Soon

Colpak® 20mm Crimper

Catalog No	Description	Packing
TC-209 A	Crimper for 20mm Aluminium Caps	1

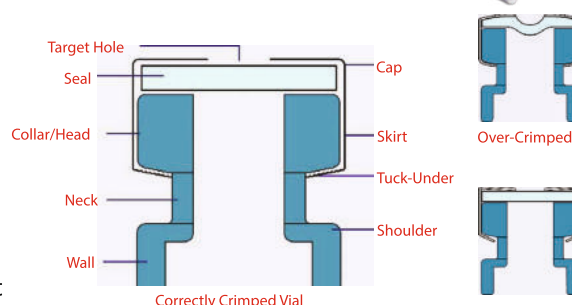


Correct Vial Crimping

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® Storage Vials

Why Select Screw Neck Vials for Storage Purpose

Screw Neck Vials for Storage Purpose made out of 1st hydrol. class glass. Vials with different volumes are available. Clear amber glass Vials. Seals with different septa materials.

Colpak® Screw Neck Storage Vials Caps & Septa



Catalog No	Description	Packing
TC80A	2ml Screw Neck Clear Vial, 11.6 x 32mm, 1st hydrol. class	100
TC80C	2ml Screw Neck Amber Vial, 11.6 x 32mm, 1st hydrol. class	100
TC804A	PP Screw Cap, Black, Closed top, Silicone white/PTFE Red, 45° shore A, 1.5mm	100



Catalog No	Description	Packing
TC130A	4ml Screw Neck Clear Vial, 14.7 x 45mm, 1st hydrol. class	100
TC130C	4ml Screw Neck Amber Vial, 14.7 x 45mm, 1st hydrol. class	100
TC1304K	PP Screw Cap, Black, Closed top, Silicone white/PTFE Red, 45° shore A,	100



Catalog No	Description	Packing
TC2420A	20ml Screw Neck Clear Vial, 27.5 x 57mm, 1st hydrol. class	100
TC2420C	20ml Screw Neck Amber Vial, 27.5 x 57mm, 1st hydrol. class	100
TC2430A	30ml Screw Neck Clear Vial, 27.5 x 72.5mm, 1st hydrol. class	100
TC2430C	30ml Screw Neck Amber Vial, 27.5 x 72.5mm, 1st hydrol. class	100
TC2440A	40ml Screw Neck Clear Vial, 27.5 x 95mm, 1st hydrol. class	100
TC2440C	40ml Screw Neck Amber Vial, 27.5 x 95mm, 1st hydrol. class	100
TC2460A*	60ml Screw Neck Clear Vial, 27.5 x 140mm, 1st hydrol. class	100
TC2460C*	60ml Screw Neck Amber Vial, 27.5 x 140mm, 1st hydrol. class	100
TC2404L	PP Screw Cap, Black, Closed top, Silicone white/PTFE Grey, 45° shore A, 1mm	100
TC2405A	PP Screw Cap, Black, Closed top, Silicone white/PTFE Grey, 45° shore A, 3mm	100



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

Why Select Screw Neck Vials for Storage Purpose

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.



Materials

Vial : Borosilicate Glass, Type 1

Screw Cap : Polypropylene

Septa/ Liner : liner, Silicon with PTFE Coating.

Applications

- 1) Custom Synthesis
- 2) Impurities
- 3) Pharmaceutical Packaging

Colpak® Micro Storage Vial, (U-Tube Vial)

Catalog No	Description	Packing
TC1600A	0.5ml Clear Micro Storage Vial (U-Tube) with White Cap & Liner,	100
TC1600C	0.5ml Amber Micro Storage Vial (U-Tube) with White Cap & Liner,	100
TC1650A	0.5ml Amber Micro Storage Vial (U-Tube) with Blue Cap & Liner,	100

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 60ml available. EPA Vials can be obtained with any type of screw seal ND 24.

Colpak® 24mm Screw Neck Vials (EPA)

Catalog No	Description	Packing
TC2421A	20ml EPA Screw Neck Clear Vial, 27.5 x 57mm, 1st hydrol. class	100
TC2421C	20ml EPA Screw Neck Amber Vial, 27.5 x 57mm, 1st hydrol. class	100
TC2431A	30ml EPA Screw Neck Clear Vial, 27.5 x 72.5mm, 1st hydrol. class	100
TC2431C	30ml EPA Screw Neck Amber Vial, 27.5 x 72.5mm, 1st hydrol. class	100
TC2441A	40ml EPA Screw Neck Clear Vial, 27.5 x 95mm, 1st hydrol. class	100
TC2441C	40ml EPA Screw Neck Amber Vial, 27.5 x 95mm, 1st hydrol. class	100
TC2461A	60ml EPA Screw Neck Clear Vial, 27.5 x 140mm, 1st hydrol. class	100
TC2461C	60ml EPA Screw Neck Amber Vial, 27.5 x 140mm, 1st hydrol. class	100



All products are Class -100 products as per EPA Standard



Colpak® 24mm Septas & Caps

Catalog No	Description	Packing
TC244L	PP Screw Cap, white, centre hole, silicone white/PTFE beige, 45° shore A, 3mm	100
TC244BOL	PP Screw Cap, white centre hole Silicone natural /PTFE beige, Bonded Septa (EPA - Quality)	100





Hyalus Disposable Culture Tubes (Borosilicate Glass Tubes)

Description:

Hyalus premium quality glass tubes are produced from borosilicate 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 250 and are shrink-wrapped in plastic film to keep them particle free.

Features and Benefits:

- Made from superior quality borosilicate 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.

Catalog No	Description	Pack Size
H- 10075	10 X 75mm, 3ml	250 Per box
H- 12075	12 X 75mm, 5ml	250 Per box

Technical Specifications:

Material: Type 1, Class B Borosilicate Glass

Autoclavable: Yes

Spin Rate: Max. ~ 4500 rpm

Melting Point (Log n=4): 1460°C (+/-20°C)

Softening Point (Log n=7.6): 1220°C (+/-20°C)

Freezing Point: -50°C

Expansion = $5 \sim 7 \times 10^{-6} \text{ K}^{-1}$

STIRRING ROD

Hyalus Glass Stirring Rod

Made from exp Glass With Rounded Ends for extra Safety and to minimise Scratching

SP-60-A Glass Stirring Rod	Ø 3mm, L 100 mm
SP-60-B	L 200 mm
SP-61-B	Ø 4mm, L 200 mm
SP-63-B	Ø 6mm, L 200 mm

Product Certifications:

- ISO 9001:2008
- Meets ASTM E890 Specification, Type 1 Requirements (Standard Specification for Disposable Glass Culture Tubes)

Suitable for: General Testing and Culturing applications

- Blood Banks,
- Hematology,
- Bacteriology
- Virology
- Tissue Culture Laboratories



Note: Any institution or individual who reuses a disposable glass culture tube must bear full responsibility for its safety and effectiveness.



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 visibility with dark solution

Sizes	Catalogue 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
10ml	GSPS - 10 - 0.1	10	0.1	0.1	1
25ml	GSPS - 25 - 0.2	25	0.2	0.2	1



Hyalus Culture Tube



Hyalus Laboratory Glassware

Hyalus Test Tube 3.3

Hyalus Brand glass test tubes are Grade I, made from borosilicate hard glass, 33 expansion, with Rim, without Rim, with uniform thickness for better heat transfer & chemical resistance., Also available under OEM.



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

Hyalus Culture Tube 3.3

Hyalus Brand Culture Tubes are made from machine drawn, uniform thickness, low expansion borosilicate glass tubing. The bottoms of these are with uniform thickness to withstand both mechanical and thermal shocks. The rims wherever provided, are strong. Culture tubes without rim have heavy fire-polished ends which are resistant to mechanical shocks of daily use. The caps and washers provided on screw cap culture tubes withstand repeated autoclaving.

2) Round Bottom Culture Tube with Screw Cap & Rubber Liner

Capacity	Catalog No.	Description	Pack Size
5ml	SP-500-A	16mm x 75mm	100pcs
10ml	SP-500-B	16mm x 125mm	100pcs
30ml	SP-500-C	25mm x 100mm	50pcs
60ml	SP-500-D	25mm x 200mm	50pcs
150ml	SP-500-E	38mm x 200mm	50pcs

3) Flat Bottom Culture Tube with Screw Cap & Rubber Liner

Capacity	Catalog No.	Description	Pack Size
5ml	SP-510-A	16mm x 50mm	121pcs
10ml	SP-510-B	25mm x 57mm	50pcs
30ml	SP-500-C	25mm x 95mm	64pcs

MUCAPS® Glass Micro Capillaries Pipettes

MUCAPS® are high precision capillary pipettes made of borosilicate natural glass with a precision bore, accurately cut and fire polished.

TLC Application : Laboratory Grade

Catalog No	Length	Pack Size	No. of Caps / Vials
SP-2013	100mm	10 Vials	250

Other sizes and Research grade available on request including 9" spotting TLC Capillary

Accessories: Bulb Dispenser

Precision - bore capillary tubes are calibrated to contain when from end to end. Insert a tube into the reusable dispensing bulb assembly and capillary action draws fluid up to the full capacity. Simply squeeze the bulb to dispense. Each case contain one bulb and 100 disposable tubes.

Capacity	Description	Pack Size
100µl	Bulb Dispenser	Each

2) MUCAPS® Melting Point Microcapillary

Melting point capillaries, precision bore, one end securely sealed

Catalog No.	Length	Pack Size	No. of Caps Per Vial
20-00-019	75mm	10 Vials	250caps
20-00-020	75mm	10 Vials	250caps
20-00-021	75mm	10 Vials	100caps
20-00-022	100mm	10 Vials	100caps
20-00-023	100mm	10 Vials	250caps

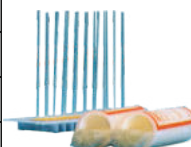
3) MUCAPS® Glass Micro Capillary Pipettes

Variety of MUCAPS® Micro Capillaries, Heparinized and Non-Heparinized are offered by us for various applications such as blood grouping, blood typing, coagulation, PCV test etc. Other applications include immunoglobulin identification, blood gas analysis, platelet counts, microhaematocrit determination and so on

Length	Catalog No.	Description	Pack Size	No. of Caps Per Vials
75mm	20-00-011	Haematocrit, Heparinised	10 Vials	250 Caps
75mm	20-00-012	Haematocrit, non Heparinised	10 Vials	250 Caps
32mm	20-00-013	Strumia, Heparinised	10 Vials	250 Caps
32mm	20-00-014	Strumia, non Heparinised	10 Vials	250 Caps
125mm	20-00-015	Blood gas analyser, Heparinised	10 Vials	250 Caps
125mm	20-00-016	Blood gas analyser, non Heparinised	10 Vials	250 Caps
90mm	20-00-017	BTCT,(Bleeding Time Clotting Time)	10 Vials	250 Caps
90mm	20-00-018	BTCT,(Bleeding Time Clotting Time)	10 Vials	250 Caps

Also available on request micro capillaries to suit customer's requirement including mice bleeding, rabbit bleeding, immunoglobulin capillaries etc.

Also available semense dignostic glass capillaries on request.



Diagnostic Products

1) Haemometers (SAHLI type) & Accessories

The Shanadilya 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. 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 hemoglobin values. They never fade or get discoloured.

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



2) Accessories: 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 hemoglobin percentage in blood. Conforms to IS 9430.

Catalog No	Description	Pack Size
31-00-003	Square Tube	12 nos.



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 hemoglobin percentage in blood. Conforms to IS 9430.

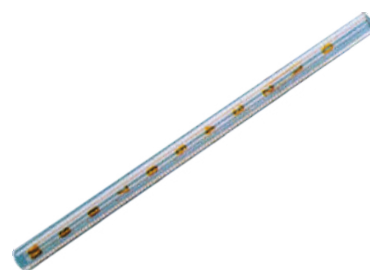
Catalog No	Description	Pack Size
31-01-102	Round Tube	12 nos.



4) Wintrobe Tubes

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

Catalog No	Description	Pack Size
31-00-005	Wintrobe Tubes	12 nos.



Diagnostic Products

1) 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 Size
31-00-004	Zero Error 20cmm Pipettes	Each

2) ESR Esrite Kit

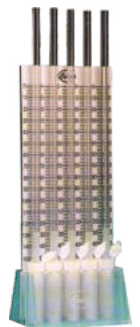
The Kit comprises of non-corroding, washable polypropylene interlocking stand with provision to simultaneously hold 5 or 10 pipettes. The Esrite Pipettes are manufactured from hard borosilicate glass, to international standards using special uniform bore technology. The ESR tubes are ground at the bottom, 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. Vials of chemically resistant plastics are manufactured in strictly controlled atmosphere.

Esrite Kit

Catalog No	Description
31-00-001	Esrite Kit, new Esrite 5 with 5 Esrite pipettes and 25 Esrite vials
31-00-002	Esrite Kit, new Esrite 10 with 10 Esrite pipettes and 50 Esrite vials

Accessories for Esrite Kit

Catalog No	Description
31-01-001	Esrite pipettes
31-01-002	Esrite Sample filling Vials



3) 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 IS 3741

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



Hyalus Laboratory Glassware

TISSUE HOMOGENISER

Hyalus Tissue Homogeniser

Potter Elvehjem

With Teslon Pestle, PTFE Stainless Steel, Individually Packed. For use in Preparation of Tissue Homogenates, etc. Autoclavable, Teon Pestle for Soft Tissue such as Brain or Liver, mm Clearance between Mortar Pestle

91-00-001	Tissue Grinder	E1, 1ml,
91-00-020		E20, 20ml,
91-00-030		E30, 30ml,
91-00-050		E50, 50ml,





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