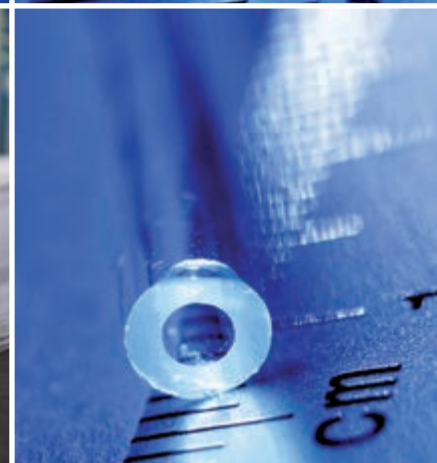
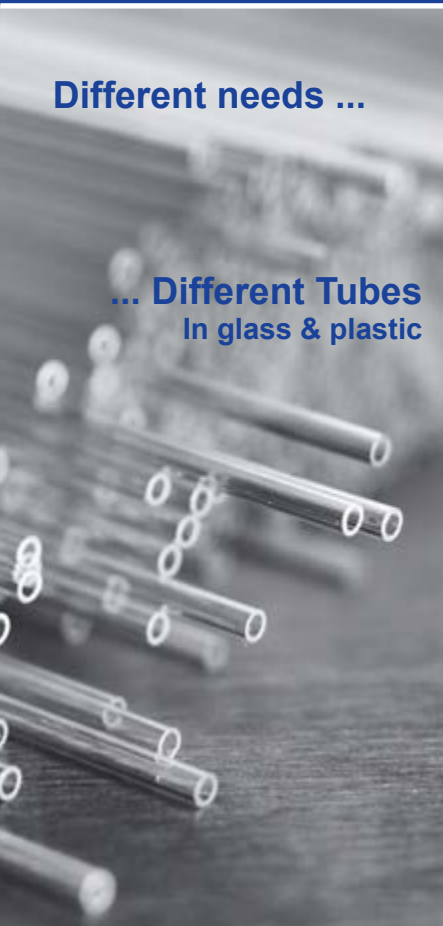


## Capillary tubes

Different needs ...

... Different Tubes  
In glass & plastic







## Vitrex® Micro Haematocrit Tubes

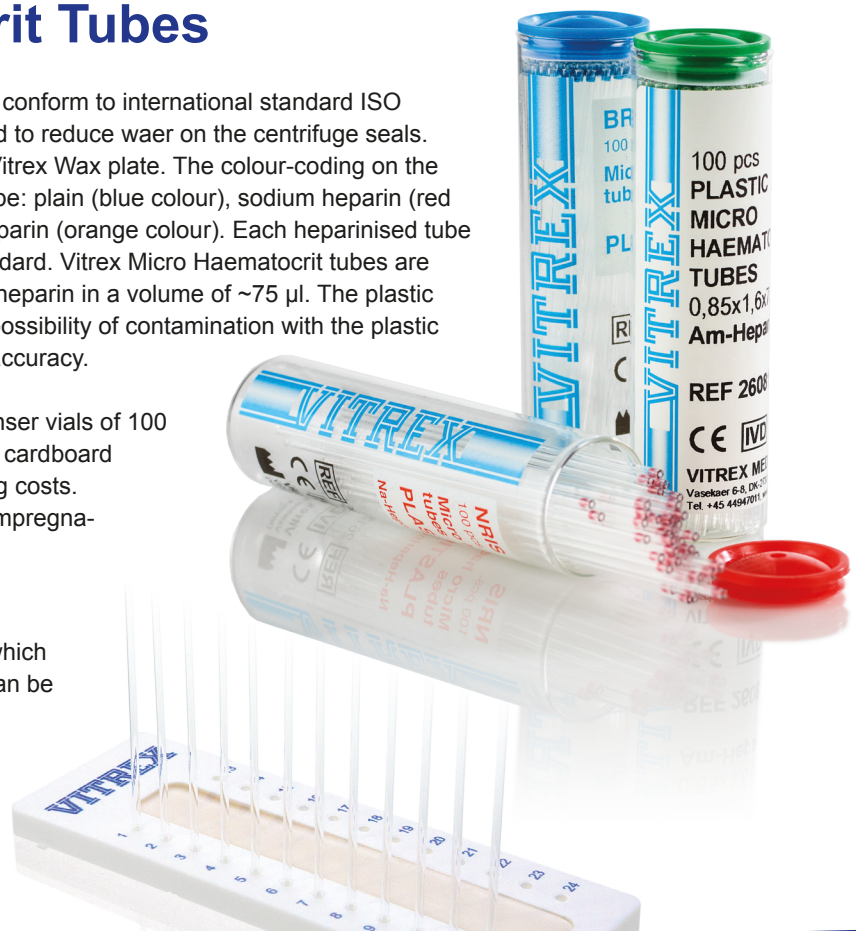
Vitrex Micro Haematocrit Tubes are quality products, that conform to international standard ISO 12772. The tubes are firepolished at the colour-coded end to reduce waer on the centrifuge seals. We recommend the colour-coded end to be sealed with Vitrex Wax plate. The colour-coding on the tubes and packaging indicates the impregnation of the tube: plain (blue colour), sodium heparin (red colour), ammonium heparin (green colour) and lithium heparin (orange colour). Each heparinised tube contains at least 4-7 IU heparin as prescribed by the standard. Vitrex Micro Haematocrit tubes are also available in plastic with plain, sodium or ammonium heparin in a volume of ~75 µl. The plastic tube provides the same effect as the glass tube, but the possibility of contamination with the plastic tube is reduced due to breakage with no compromise in accuracy.

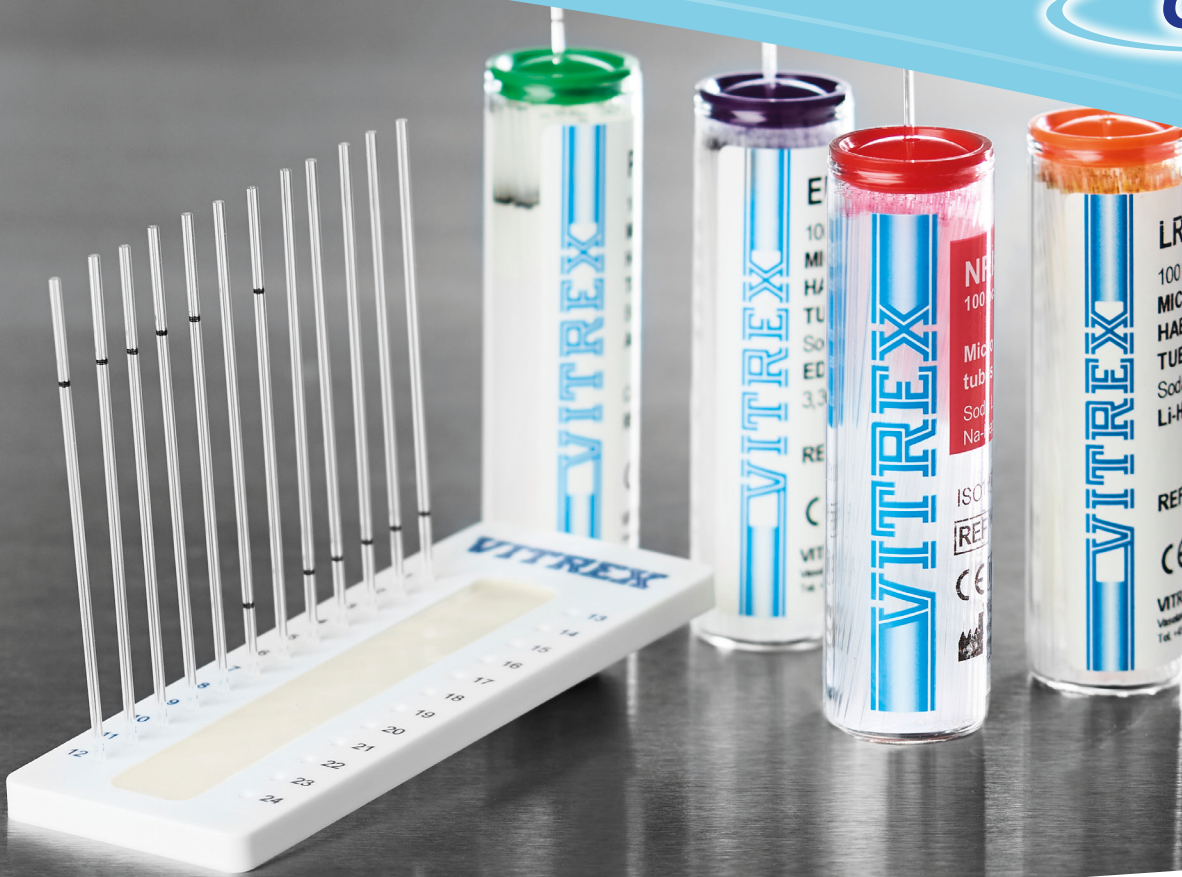
The tubes are available in two types of packaging: Dispenser vials of 100 tubes each for hygienic and easy handling; and economy cardboard boxes of 1000 tubes, which reduce transport and handling costs. Special requirements regarding marking, dimensions or impregnation are possible.

### Accessories

Vitrex Wax plate has 2x24 numbered positions per pair, which makes it easy to seal and transport samples. Each pair can be forced apart and used separately.

Product	Article no.
Wax plate 2 x 5 pcs.	140013





### Standard Micro Haematocrit Tubes

Colour Code	Impregnation	d (mm) +/- 0.05 mm	D (mm) +/- 0.05 mm	L (mm) +/- 0.5 mm	Vol. ( µl )	Article No. 10 x 100	Article No. 1 x 1000
●	Plain	1.15	1.55	75	~75	160213	163213
●	Sodium Hep.	1.15	1.55	75	~75	161313	163613
●	Ammon. Hep.	1.15	1.55	75	~75	160813	164013
●	Lithium Hep.	1.15	1.55	75	~75	161813	*
●	K2EDTA	1.15	1.55	75	~75	167313	*

### Non-standard Micro Haematocrit Tubes

Colour Code	Impregnation	d (mm) +/- 0.05 mm	D (mm) +/- 0.05 mm	L (mm) +/- 0.5 mm	Vol. ( µl )	Article No. 10 x 100	Article No. 1 x 1000
●	Plain	0.95	1.35	75	~50	160413	163413
●	Sodium Hep.	0.95	1.35	75	~50	161513	163813
●	Sodium Hep.	1.15	1.55	70	~70	*	164413
●	Ammon. Hep.	0.95	1.35	75	~50	160913	*
●	Lithium Hep.	0.95	1.35	75	~50	160613	*

### Precalibrated Micro Haematocrit Tubes

Colour Code	Impregnation	d (mm)	Tol. d. mm	D (mm) +/- 0.05 mm	L (mm) +/- 0.5 mm	Vol. 1 ( µl )	Vol. 2 ( µl )	Article No. 10 x 100
●	Sodium Hep.	0.55	+/-0.05	1.55	75	~14	~18	162713
●	Ammon. Hep.	0.55	+/-0.05	1.55	75	~14	~18	162813
●	Lithium Hep.	1.023	+/-0.008	1.50	75	32	~61	161113

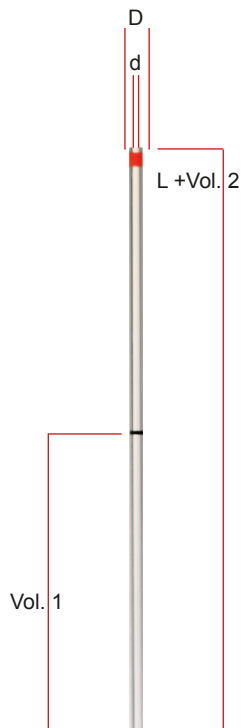
### Plastic Micro Haematocrit Tubes

Colour Code	Impregnation	d (mm) +/- 0.05 mm	D (mm) +/- 0.05 mm	L (mm)	Vol. ( µl )	Article No. 10 x 100
●	Plain	0.85	1.55	75	~50	260213
●	Sodium Hep	0.85	1.55	75	~50	261313
●	Ammon. Hep.	0.85	1.55	75	~50	260813

\* Available upon request  
For special tubes contact us

Shelf life 4 years

Shelf life 2 years







## Vitrex® End-to-End Pipettes

Vitrex End-to-End Pipettes are intended for easy and accurate capillary tube volume measurement. The pipettes are in conformity with ISO 7550.

The pipettes are packed in glass vials with a dispenser top, that makes it easy to shake out one tube at a time and thereby ensuring hygienic handling.

The dispenser tops are colour-coded to indicate the tube volume in conformity with ISO 1769. Ten vials are packaged in a sturdy carton in order to protect the tubes from damage during handling or transport.

### Vitrex tolerances

Vol. ( µl )	Accuracy	CV
0.5 - 10	± 0.50%	0.75%
20 - 100	± 0.50%	0.60%





## Technical Specifications

Colour Code	Vol. ( µl )	L (mm) +/- 1mm	Pcs.	Plain	Natrium Hep.	Ammon. Hep.	K2EDTA
○	0.5	15	10x100	177613	*	*	*
●	1	29	10x100	165013	167513	169013	*
●	2	29	10x100	165113	167613	169113	*
●	3	29	10x100	165213	167713	169213	*
●	4	29	10x100	165313	167813	169313	*
○	5	29	10x100	165413	167913	169413	170113
●	10	29	10x100	174313	177113	179213	174113
●	20	29	10x100	174513	177213	179313	174413
○	25	29	10x100	174613	177313	179413	178213
●	40	29	10x100	174813	177413	179513	*
●	44.7	29	10x50	175013	177713	178613	*
●	50	29	10x50	174913	177513	179613	171113

\* Available upon request  
For lithium hep. please contact us

**Shelf life 4 years**

## Accessories

Product	Article No.
Pipette holder	140413





## Vitrex® Precalibrated Pipettes

Vitrex Precalibrated Pipettes are intended for accurate capillary tube volume measurement. The pipettes are in conformity with ISO 7550.















The pipettes are packed in cardboard vials of 250 pcs. except 100-200 µl, which are packed in vials of 125 pcs. The pipettes have a standard length of 125 mm and the colour-coding on each pipette indicates the volume, which is measured from the base and up to the ringmark.

### Vitrex tolerances

Vol. ( µl )	Accuracy	CV
1-5	± 0.30%	0.60%
10-200	± 0.25%	0.50%



## Technical Specifications

														
Vol. ( $\mu$ l )	1,2,3,4,5	5	10	5-10	20	25	40	20-40	44.7	50	20-50	100	50-100	100-200
Plain	128813	126013	126213	125513	126413	126613	129313	125913	126813	127013	125613	127213	125713	129413
Na Hep.	128913	127413	127613	125213	127813	128013	128413	129913	128213	128513	129113	128613	127113	127713

Other coatings available upon request i.e. Lithium, Ammonium, EDTA.

**Shelf life 4 years**

Vol.





## Vitrex® Blood Gas Tubes

Vitrex capillary tubes for blood gas analyses are made from heavy walled glass, suitable for 2.3 mm Ø adaptors. The uniform heparinisation, careful fire polishing, heavy walled tubes and robust end-caps secure proper function and reduce operating risk. Vitrex Blood Gas Tubes are also available in plastic with sodium heparin in the same sizes as Vitrex Blood Gas Tubes in glass. The plastic tube provides the same effect as the glass tube, but the possibility of contamination with the plastic tube is reduced due to breakage with no compromise in accuracy.

### Accessories

Stirrers packed in vials of 250 pcs.

End Caps packed in boxes of 500 pcs.

Magnets packed in bags.







## Blood Gas Tubes

Vol. ( µl )	Pcs.	d (mm) +/- 0.05 mm	D (mm) +/- 0.05 mm	L (mm) +/- 1 mm	Na Hep. Article No.	Li Hep. Article No.
130 (min)	4 x 250	1.60	2.30	75	182513	182613
175 (min)	4 x 250	1.60	2.30	100	182413	183313
220 (min)	4 x 250	1.60	2.30	125	182313	182013

Special types upon request.

**Shelf life 4 years**

## Plastic Blood Gas Tubes

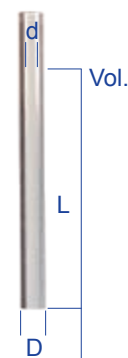
Vol. ( µl )	Pcs.	d (mm) +/- 0.05 mm	D (mm) +/- 0.05 mm	L (mm) +/- 1 mm	Plastic Na Hep. Article No.
130 (min)	4 x 200	1.60	2.30	75	282513
175 (min)	4 x 200	1.60	2.30	100	282413
220 (min)	4 x 200	1.60	2.30	125	282313

Other types available upon request.

**Shelf life 2 years**

## Accessories

Description	For tubes with D	Pcs.	Article No.
End caps for D (mm)	2.20 - 2.80 mm	10 x 500	140813
End caps for D (mm)	1.50 - 2.20 mm	10 x 500	140713
Stirrers		10 x 250	140913
Magnets		1	142400





## Vitrex® Capillary & Melting Point Tubes

Vitrex Capillary and Melting Point Tubes are perfect for the handling and transport of small volumes of liquid, melting point determinations and many other purposes. The tubes are uniform and cut at right angles. The tubes are packed in vials of 100 or bulk in boxes of 500, 1000, 2000, 3000 or 5000 pcs.



### Technical Specifications

d (mm) +/- 0.05	D (mm) +/- 0.05	L (mm) +/- 1	Pcs.	Both ends open	One end Closed
0.80	1.00	80	2000	210013	218013
0.80	1.00	100	2000	210113	218113
0.90	1.20	70	1000	210213	218213
0.90	1.20	100	1000	210313	218313
1.00	1.40	75	1000	210413	218413
1.00	1.40	80	1000	210513	218513
1.00	1.40	100	1000	210613	218613
1.00	1.40	125	1000	210713	218713
1.00	1.40	150	1000	210813	218813
1.00	1.40	200	5000	210913	218913
1.15	1.55	80	1000	211013	219013
1.15	1.55	100	1000	211113	219113
1.20	1.65	75	500	211213	219213
1.20	1.65	100	500	211313	219313
1.20	1.65	125	1000	211413	219413
1.20	1.65	150	1000	211513	219513
1.20	1.65	200	3000	211613	219613
1.40	1.90	125	500	211713	219713
1.50	2.00	75	500	211813	219813
1.50	2.00	100	500	211913	219913

For other dimensions, tolerances, sealing, impregnation or packaging, please contact us.

**Shelf life 4 years**



Coming soon

## Vitrex® Mylar Wrap Haematocrit Tubes

Vitrex Mylar Wrap Haematocrit Tubes combine the benefits from glass tubes and plastic tubes by offering the precision and chemical resistance of glass with the safety provided by a Mylar overwrap. The tubes therefore offer enhanced safety with no compromises. With Vitrex Mylar Wrap Haematocrit Tubes the chance of contamination due to glass fragments or aerosols is greatly reduced. Accidental breakage is significantly reduced particularly when pressing the tube into sealing clay. In the event of breakage, the Mylar wrapping will help contain the liquid and provide an added layer of protection against cuts from broken glass. The tubes are available plain and heparinised. They are packed in vials of 100 pcs.

For more information please contact us.

Enhanced safety provided by Mylar Wrap





Coming soon

## Vitrex® Filter Volume Capillary Tubes

Vitrex Filter Volume Capillary Tubes are Mylar wrapped glass tubes with a hydrophobic filter preset to achieve precise volume delivery. The filter controls the volume and serves as a piston which dispenses the liquid when pressed downward by the plunger. The Mylar wrap provides enhanced safety with no compromise in accuracy, as it will help contain the liquid and protect against cuts from broken glass in the event of breakage. Vitrex Filter Volume Capillary Tubes offer a two-in-one solution as they can collect and dispense. The tubes are available plain and heparinised. They are packed in vials containing 50 tubes and 50 plungers or 100 tubes and 5 plungers. Other packings are available upon request.

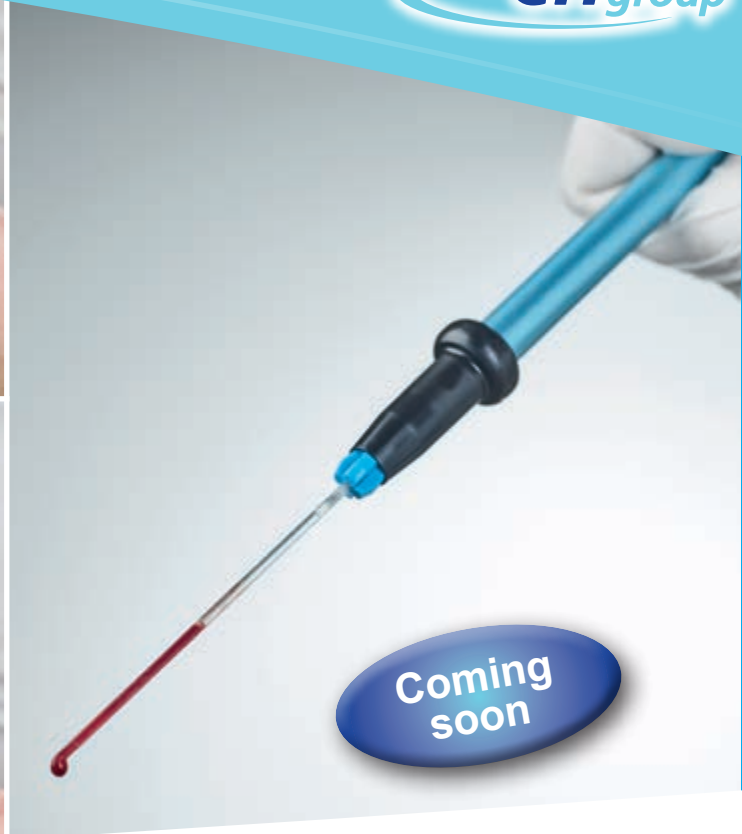
## Vitrex® Plastic Bulb Dispenser

Vitrex Plastic Bulb Dispenser is a simple, one-piece plastic tube and dispenser in one, that offers easy and accurate volume measurement. The dispenser is intended for collecting and dispensing micro samples of blood. The possibility of contamination with Vitrex Plastic Bulb Dispenser is eliminated due to breakage with no compromise in accuracy. The dispenser is available in volumes of 5  $\mu$ l to 80  $\mu$ l and packed in bags of 10 or 50 pcs.



Coming soon





## Vitrex® Self-Sealing Haematocrit Tubes

Vitrex Self-Sealing Haematocrit Tubes offers a combination of safety and efficiency, as it contains triple Mylar wrap and a vented, self-sealing plug. The Mylar wrap provides enhanced safety with no compromise in accuracy. In the event of breakage, the Mylar wrapping will help contain the liquid and provide an added layer of protection against cuts from broken glass. The tubes are efficient as the user saves the time and trouble of having to seal the tubes with wax since it is pre-installed. To dispense the tube, the Vitrex Self-Sealing Tube Dispenser is needed. The tubes are available plain and heparinised. They are packed in vials of 100 pcs.

## Vitrex® Self-Sealing Tube Dispenser

Vitrex Self-Sealing Tube Dispenser is designed to dispense Vitrex Self-Sealing Haematocrit Tubes. In the need of centrifuging the tubes to separate the plasma from the red blood cells, then dispensing Vitrex Self-Sealing Haematocrit Tubes with other devices can be quite difficult. Vitrex Self-Sealing Tube Dispenser use positive displacement and therefore the process is a lot more convenient for the user. The dispenser is packed in boxes including 1 piece.

**For more information please contact us.**





## Vitrex® Pipette Fixed

### LOW COST

This miniature fixed volume pipette is specially designed for use with Diagnostic Kits.

### HIGH ACCURACY AND PRECISION

Each pipette is individually calibrated as per the ISO 8655 standard.

### COLOUR-CODING

The colour-coding for each pipette indicates the volume - ensuring easy identification in the laboratory environment.

### TWO STEP PLUNGER OPERATION

This unique feature makes the pipette a genuine miniature micropipette.

### PRACTICAL SIZE

At a length of 130 mm this pipette is the optimum practical size for the pipetting function.

### FULLY AUTOCLAVABLE

Autoclavable at 121°C & 15 psi.

## Recommended use

### Stage 1:

Depress the plunger to the first stage to aspirate the fluid. Place the tip of the micropipette in the desired fluid. Slowly release the pressure and allow the plunger to rise allowing the fluid to aspirate.

### Stage 2:

Transfer the fluid to the desired location by again depressing the plunger to the first stage. Press the plunger in full (second stage) in order to fully dispense the fluid.

This operation also allows the Vitrex Pipette Fixed to be used for both reverse and repetitive pipetting.

## Technical Specifications

Colour Code		Vol. µl	Accuracy ±%	Precision CV%	Pcs.	Article No.
White	○	5	2.5	1.5	1	560013
Orange	●	10	1.2	0.8	1	561013
Black	●	20	1	0.5	1	562013
Grey	●	25	1	0.4	1	563013
Green	●	50	1	0.4	1	564013
Blue	●	100	0.8	0.3	1	565013
Red	●	200	0.8	0.3	1	566013





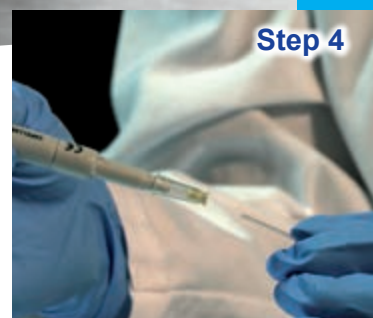
Step 1



Step 2



Step 3



Step 4

## Vitrex® Capillary Dispenser

Vitrex Capillary Dispenser is a unique liquid handling tool, developed to empty capillary tubes for blood or other liquids.

### FULLY AUTOCLAVABLE

Autoclavable at 121°C & 15 psi for sensitive applications.

### LOW COST

This dispenser is specially designed for use with Diagnostic Kits.

### UNIQUE TIP CONE

Designed to accept most Vitrex Capillary Tubes.

### OPTIMUM SIZE

At a length of 130 mm this dispenser is the optimum practical size for blood collection.

### Technical Specifications

Colour Code	Vol. µl	Pcs.	Article No.
Grey	Most Vitrex Capillary Tubes	1	569013

## Recommended use

### Step 1: Loading the device

Insert an unused capillary tube into the pipette tip. The end of the capillary tube must be visible in the tip.

### Step 2: Filling the capillary tube

Hold the pipette horizontally and let the capillary tube be filled by capillary effect. Be sure not to press the plunger of the pipette.

### Step 3: Emptying the capillary tube

Empty the capillary tube by pressing the plunger gently to the first stage. The liquid will be dispensed, but a small amount of liquid will be left in the tube. After a pause continue to depress the plunger to the second stage. The small amount of liquid left in the tube has also dispensed.

### Step 4: After use

Remove the capillary tube carefully and discard in a suitable safety container.



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