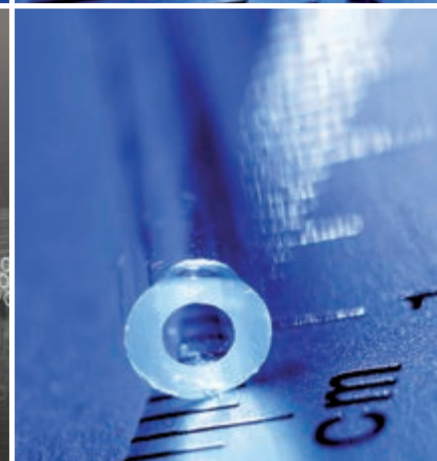
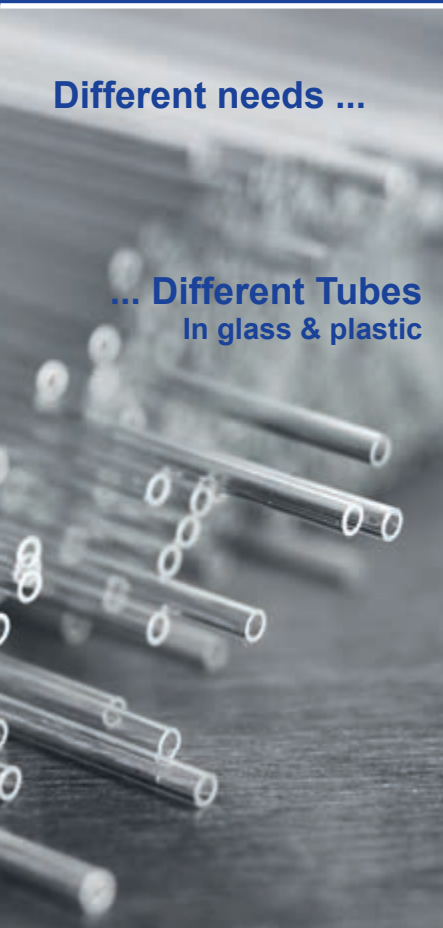


## Capillary tubes

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 wear 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 ~50 µl. The plastic tube provides the same effect as the glass tube.

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 x1000
●	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	*
●	EDTA	1.15	1.55	75	~75	167313	*

### Non-standard Micro Haematocrit Tubes

Shelf life 4 years

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
●	Ammon. Hep.	0.95	1.35	75	~50	160913	*
●	Lithium Hep.	0.95	1.35	75	~50	160613	*

### Precalibrated Micro Haematocrit Tubes

Shelf life 4 years

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

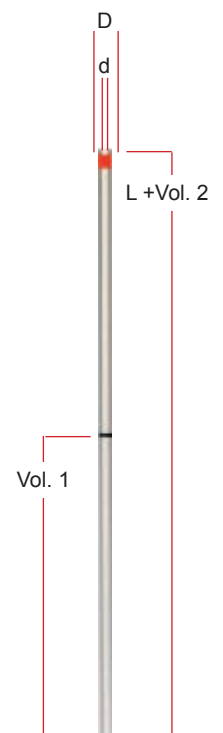
### Plastic Micro Haematocrit Tubes

Shelf life 4 years

Colour Code	Impregnation	d (mm) +/- 0.08 mm	D (mm) +/- 0.08 mm	L (mm) ± 1.0mm	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 2 years





## Vitrex End-to-End Pipettes

Vitrex End-to-End Pipettes are intended for applications where accurate capillary tube volume is required. 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%



### Accessories

Product	Article No.
Pipette holder - Standard	140413
Pipette holder - Compact	140313





### Technical Specifications

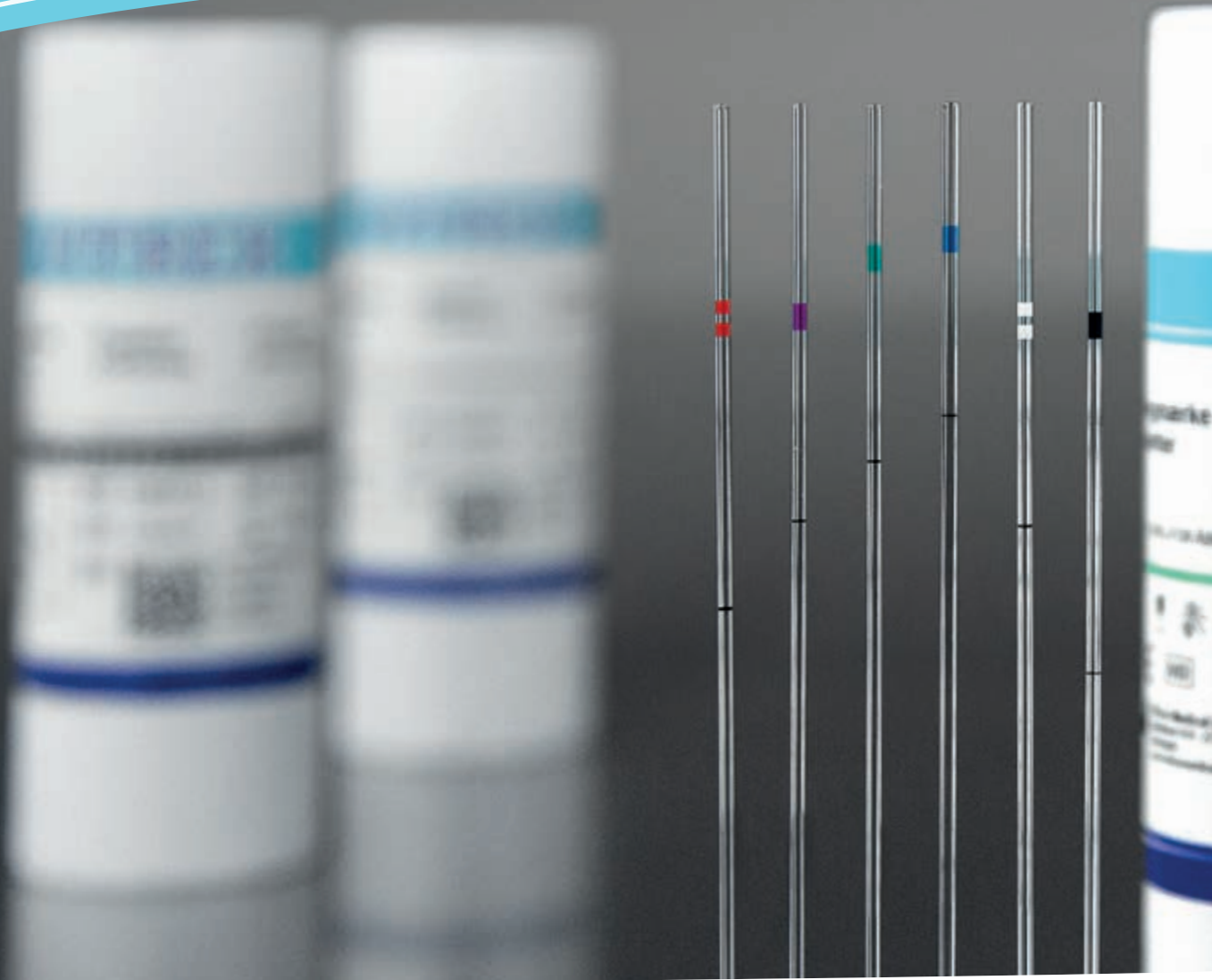
Colour Code	Vol. ( µl )	L (mm) +/- 1mm	Pcs./box	Plain	Sodium Hep.	Ammon. Hep.	K2EDTA
○	0.5	15	10x100	177613	*	*	*
●	1	29	10x100	165013	167513 *	169013 *	*
●	2	29	10x100	165113	167613 *	169113 *	*
●	3	29	10x100	165213	167713 *	169213 *	*
●	4	29	10x100	165313	167813 *	169313 *	*
○	5	29	10x100	165413	167913 *	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**

Vol.





## Vitrex Precalibrated Pipettes

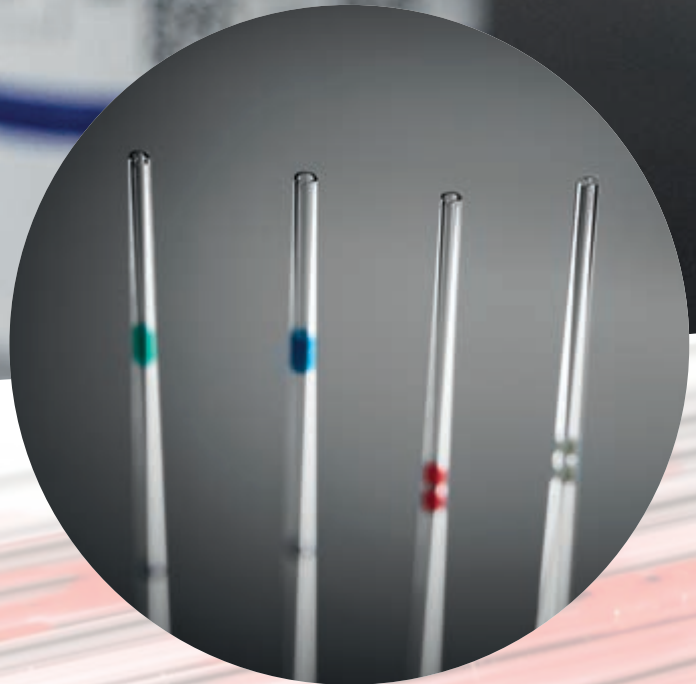
Vitrex Precalibrated Pipettes are intended for applications where accurate capillary tube volume is required. The pipettes are in conformity with ISO 7550.

The pipettes are packed in cardboard vials. 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 thin black ringmark.















### Vitrex tolerances

Vol. ( $\mu$ l )	Accuracy	CV
1-5	$\pm$ 0.30%	0.60%
10-200	$\pm$ 0.25%	0.50%





### Technical Specifications

														
Vol. ( µl )	1,2,3,4,5	5	10	5-10	20	25	40	20-40	44.7	50	20-50	100	50-100	100-200
Pcs.	4x250	4x250	4x250	4x250	4x250	4x250	4x250	4x250	4x250	4x250	4x250	4x250	4x250	4x125
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

250 pcs. except 100-200 µl, which are packed in vials of 125 pcs.  
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 secure proper function of the tubes for blood gas analysis. Vitrex Blood Gas Tubes are also available in plastic with sodium heparin in the same sizes as Vitrex Blood Gas Tubes in glass.

### Accessories

Stirrers packed in vials of 250 pcs.  
End Caps packed in boxes of 500 pcs.  
Magnets packed in bags of 10 pcs.







### 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

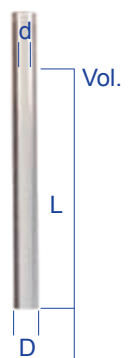
Vol. ( µl )	Pcs.	d (mm) +/- 0.05 mm	D (mm) +/- 0.05 mm	L (mm) +/- 1 mm	Plastic Na Hep. Article No.
130 (min)	4 x 200	1.60	2.30	75	282513
175 (min)	4 x 200	1.60	2.30	100	282413
220 (min)	4 x 200	1.60	2.30	125	282313

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 x 10	142400





## Vitrex Capillary & Melting Point Tubes

Vitrex Capillary Tubes are perfect for the handling and transport of small volumes of liquid, melting point determinations and many other purposes.

Melting Point tubes are uniform and cut at right angles. The tubes are packed as bulk in boxes. The tubes are also possible to pack in vials of 100 pcs. upon special request.

### Technical Specifications

d (mm) +/- 0.05	D (mm) +/- 0.05	L (mm) +/- 1	Pcs.	Capillary Tubs Both ends open	Melting Point 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**







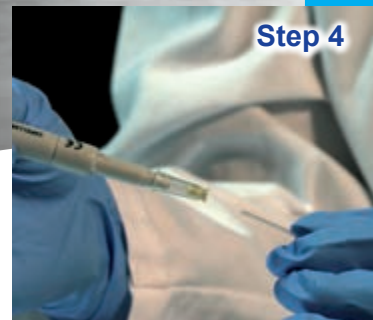
Step 1



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.




Ready



1. Stage



2. Stage

## 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:

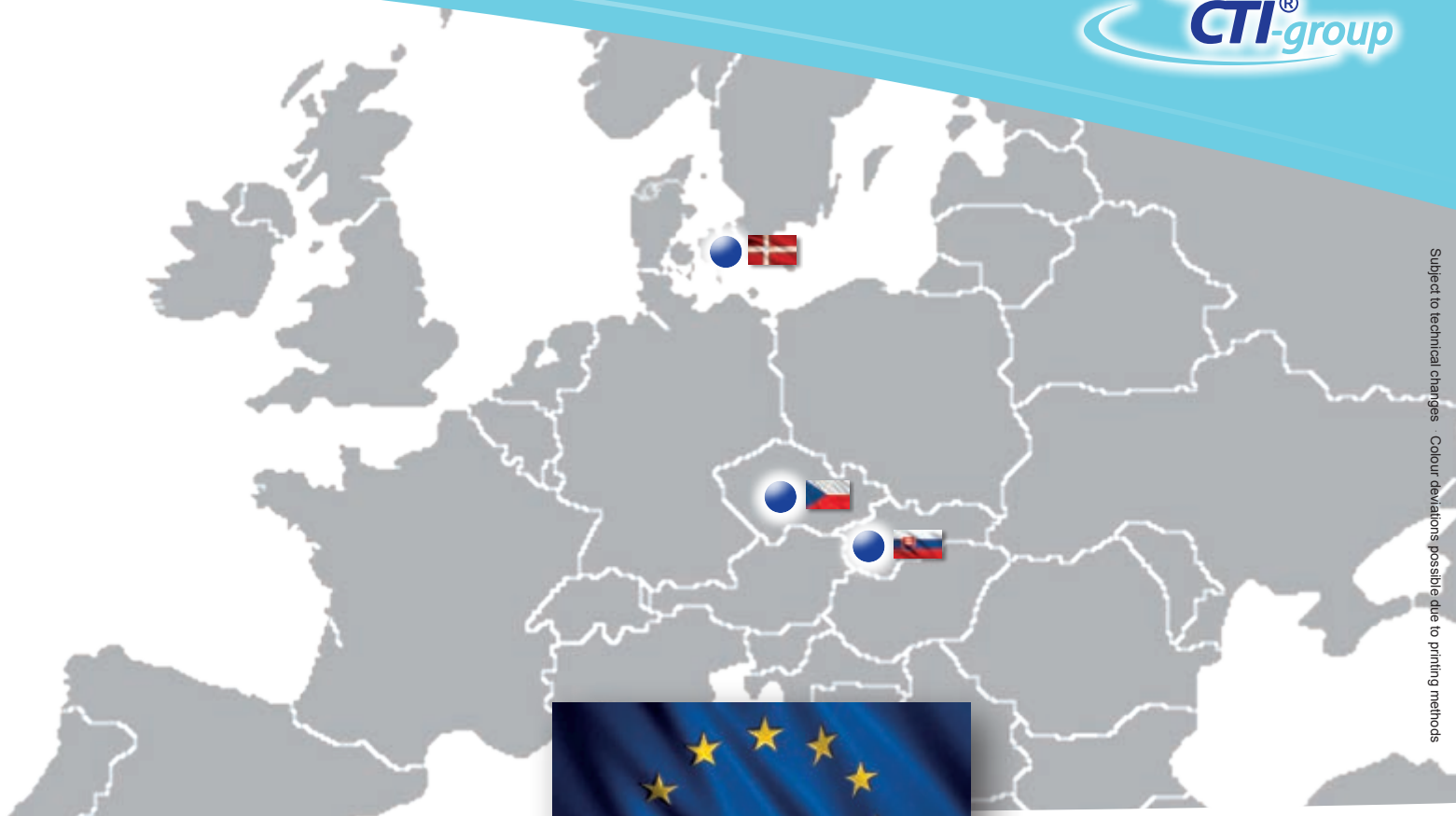
Transfer the fluid to the desired location by again depressing the plunger to the first stage. Press the plunger in full (second stage) in order to fully dispense the fluid.

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





Subject to technical changes - Colour deviations possible due to printing methods



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