



**VITREX lab**  
Member of Vitrex Medical Group





## Vitrex Micro Haematocrit Tubes

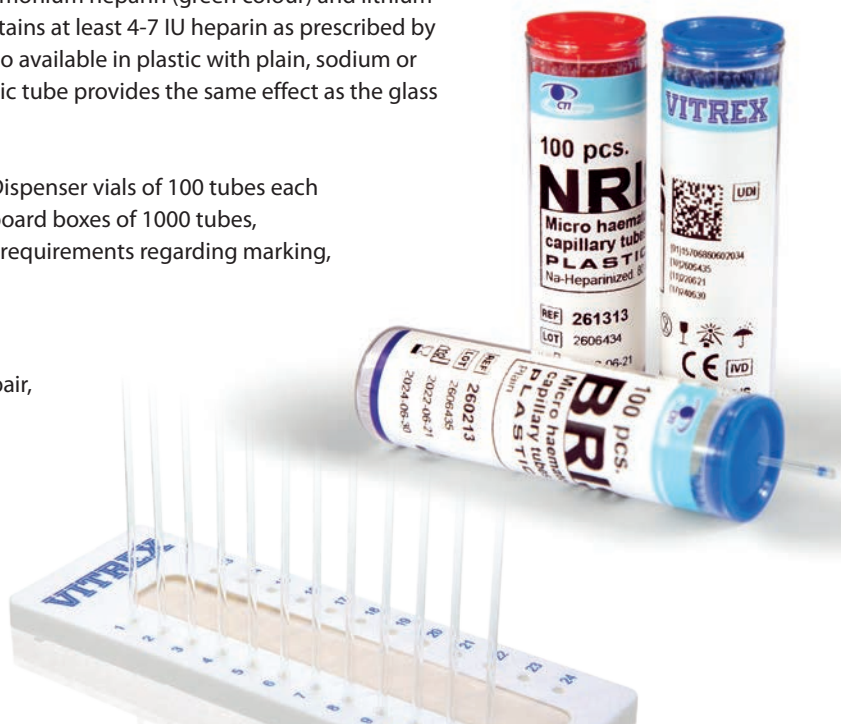
Vitrex Micro Haematocrit Tubes are quality products, that conform to international standard ISO 12772. The tubes are firepolished at the colour-coded end to reduce wear on the centrifuge seals. We recommend the colour-coded end to be sealed with Vitrex Wax plate. The colour-coding on the tubes and packaging 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 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	*
●	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

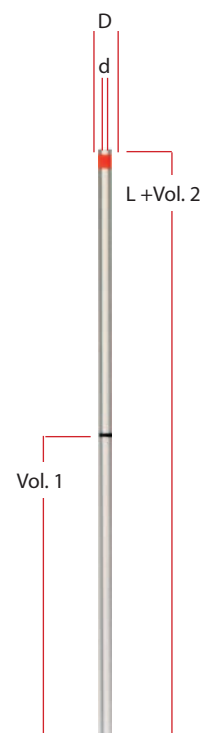
### Plastic Micro Haematocrit Tubes

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
1 - 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	Natrium Hep.	Ammon. Hep.	K2EDTA
●	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. (µl)	Accuracy	CV
1-5	± 0.30%	0.60%
10-200	± 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 Capillary and 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

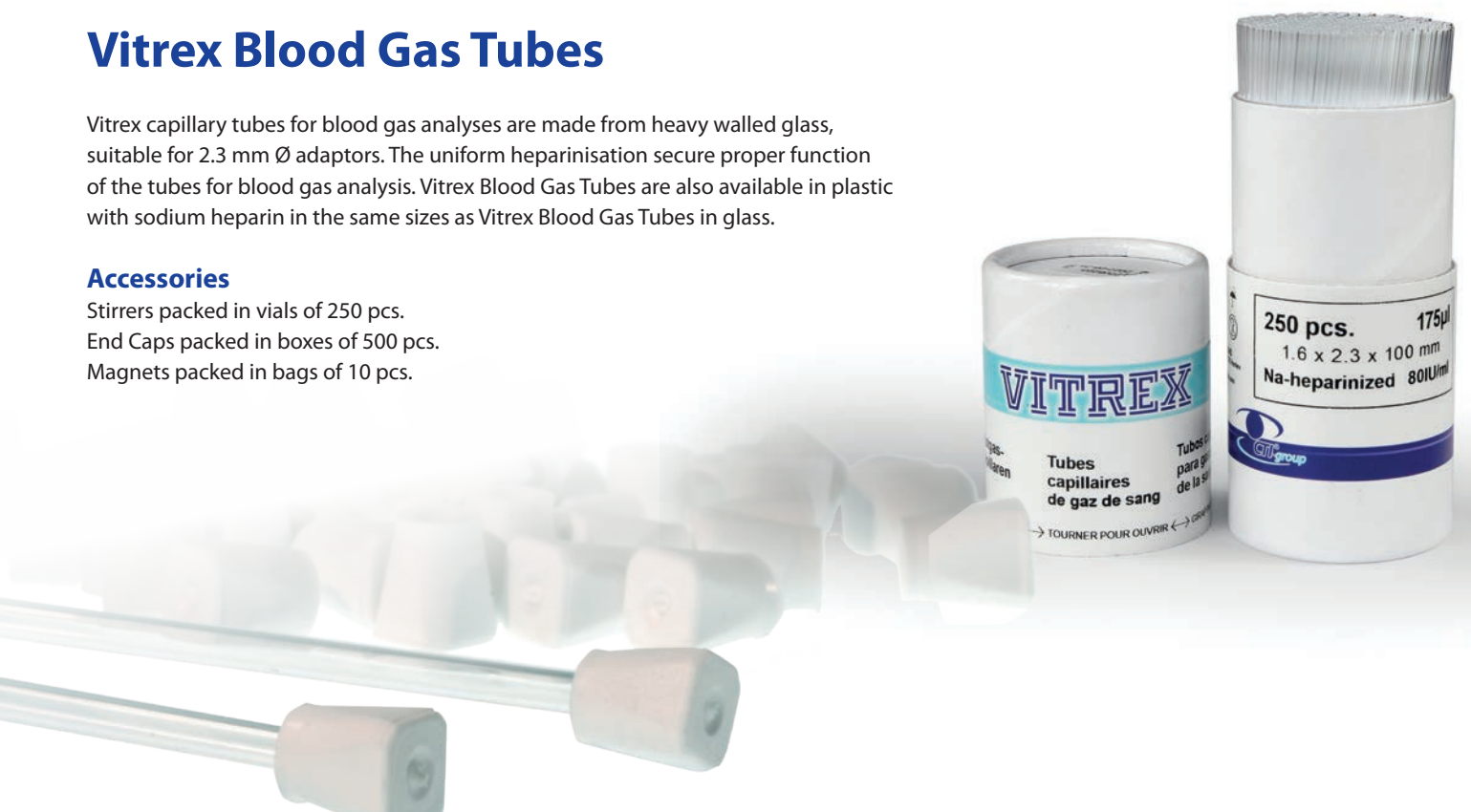


## Vitrex Blood Gas Tubes

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 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.



## Vitrex Octaheel Baby

### Sterile Cutting Safety lancets

Vitrex Octaheel Baby lancets are intended for high volume blood flow with minimum depth of penetration. The safety lancets are primarily applicable for newborns and preemies. However, they can also be recommended for other applications, where short penetration depth and/or minimal compression of tissue is important.

Vitrex Octaheel Baby lancet is the latest edition offering improved ergonomomy.



**ACTIVATION BUTTON:** Secured by safety tab.

**NO CHOCKING HAZARD:** Non-detachable safety tab.

**USER SAFETY:** Blade is fully shielded before and after use.

**EASIER HANDLING:** Anti-slip texture and one hand operation.

**USER CONVENIENCE:** Pre-loaded, button activated design.

**PATIENT SAFETY:** Single-use only. Sterilised by gamma irradiation.

**PATIENT COMFORT:** Ultra sharp blade with high speed cutting securing minimal trauma and fast healing.

**NARROWED LANCING SLOT:** Easier positioning.










## Recommended use

1. Release the trigger lock mechanism by pushing down the safety tab.
2. Reference position for infant heel blood sampling.
3. Raise the baby's foot to a suitable position, place the blade slot flush against the heel site and activate the lancet.
4. Collect the blood sample with a capillary tube.
5. Dispose the safety lancet in a suitable safety container.

## Technical Specifications

Colour Code	Specification	Article No.	Indicative use
Green 	0.65 mm Depth / 1.40 mm Incision Length	335313	Micro-Preemie
Orange 	0.85 mm Depth / 1.75 mm Incision Length	334313	Preemie
Yellow 	1.00 mm Depth / 2.50 mm Incision Length	333313	Newborn
Pink 	1.14 mm Depth / 2.80 mm Incision Length	332313	Newborn Plus
Blue 	2.00 mm Depth / 3.00 mm Incision Length	331313	Toddler

Shelf life 5 years



Transit packaging

Pallet

### Packaging:

#### Blister Packed

Primary packaging:

50 pcs.

Transit packaging:

200 pcs.

Pallet:

23,200 pcs.



## Vitrex Ultrasafe

### Sterile Safety lancet

Vitrex Ultrasafe lancet is intended for blood glucose and other in vitro diagnostic tests. Health workers worldwide face accidental needle-stick injury while caring for patients, putting themselves at risk to bloodborne illnesses including the AIDS virus and Hepatitis.

#### **PRESSURE ACTIVATED**

**UNIQUE DESIGN:** Ergonomically optimized for better handling

**HIGH QUALITY SILICONE COATED NEEDLE:** Less pain and smooth penetration

#### **EASY TARGETING OF PUNCTURE SITE**

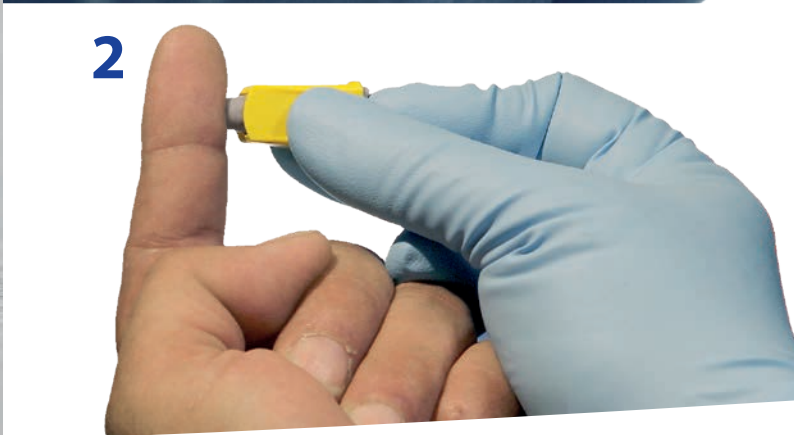


**Unique design, ergonomically optimized for better handling**

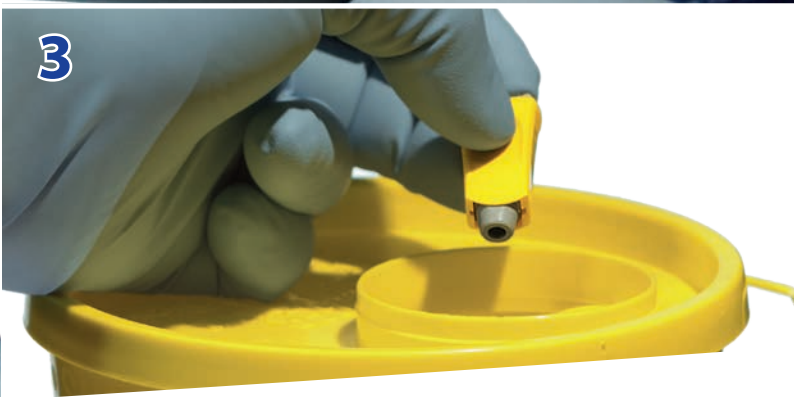




1



2



3

## Recommended use

1. Carefully twist off the protective cap.
2. Select puncture site and press the device firmly against the site to release the lancet.
3. Dispose the safety lancet in a suitable safety container.
4. Collect the blood sample with a capillary tube.

## Technical Specifications

Colour Code	Specification	Penetration Depth	Article No.	Indicative use
Green	17G blade	2.0 mm	393413	For heel puncture in average-weight newborns and older children
Blue	21G needle	1.8 mm	397413	Diabetes clinics/hospital wards for blood glucose monitoring
Orange	21G needle	2.2 mm	395413	Haemoglobin (blood banks), cholesterol, blood typing, coagulation, blood gas and other diagnostic tests
Pink	21G needle	2.8 mm	396413	As the Orange lancet, but for thicker adult skin
Yellow	26G needle	1.8 mm	394413	As the Orange lancet, but lower blood flow and less pain
Rose	28G needle	1.5 mm	392413	Diabetes clinics/hospital wards for blood glucose monitoring
Purple	28G needle	1.8 mm	398413	Low blood flow, less pain
Turquoise	30G needle	1.8 mm	399413	Diabetes clinics/hospital wards for blood glucose monitoring. For minimal pain

Shelf life 5 years



Transit packaging

Pallet

**Packaging:**

Primary packaging:

100 pcs.

Transit packaging:

1,000 pcs.

Pallet:

98,000 pcs.



## Vitrex Flex 3

### Depth Adjustable Safety lancet

Vitrex Flex 3 safety lancet is an All-in-One lancet for emergency use due to its adjustable design, which includes three different penetration depths for a single unit. The lancet is intended for blood glucose and other in vitro diagnostic tests.

**USER CONVENIENCE:** Pre-loaded and pressure activated design. The trigger position indicates the before and after use.

**USER SAFETY:** Needle is fully shielded before and after use.

**COMFORT:** High quality tri-bevel needle with high speed penetration.

**PATIENT SAFETY:** Single-use only. Sterilised by gamma irradiation.





Avoid misfiring when adjusting the depth. Ergonomic design for improved holding.



Improved safety cap removal – cap automatically semi ejects, when turned to remove.

### Technical Specifications

Colour Code	Specification	Penetration Depth	Article No.
Blue	23G	1.30 mm - 1.80 mm - 2.30 mm	395813
Yellow	26G	1.30 mm - 1.80 mm - 2.30 mm	396813
Orange	28G	1.30 mm - 1.80 mm - 2.30 mm	397813

Shelf life 5 years

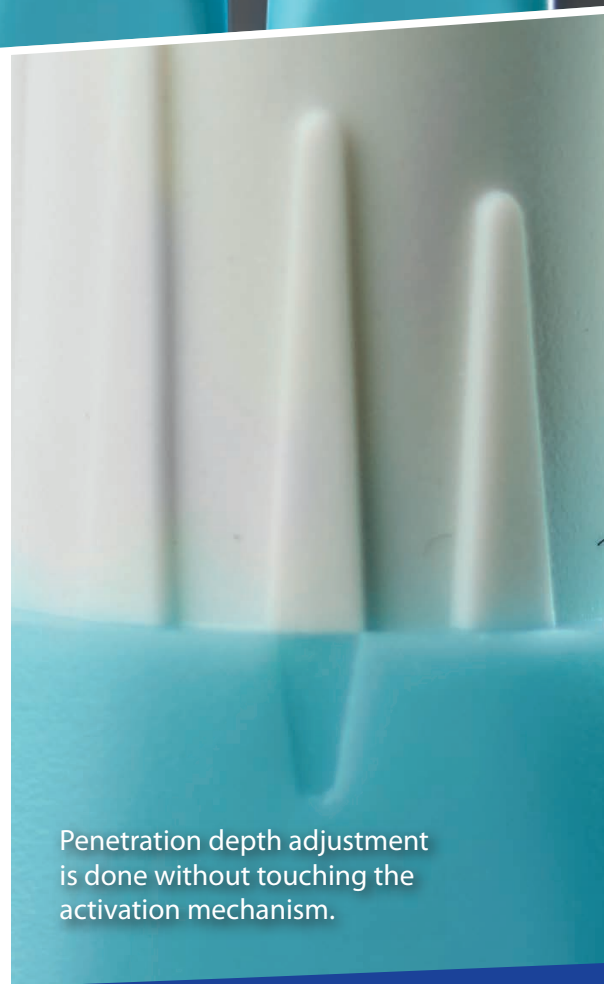


Transit packaging

Pallet

**Packaging:**

Primary packaging: 100 pcs.  
 Transit packaging: 1,000 pcs.  
 Pallet: 84,000 pcs.



Penetration depth adjustment is done without touching the activation mechanism.



## Vitrex Lite3

### Sterile Safety lancet

Vitrex Lite3 lancet is intended for blood glucose and other in vitro diagnostic tests. Health workers worldwide face accidental needle-stick injury while caring for patients, putting themselves at risk to bloodborne illnesses including the AIDS virus and Hepatitis.

#### **BUTTON ACTIVATION**

**USER SAFETY:** Needle is fully shielded before and after use.

**USER CONVENIENCE:** Pre-loaded, pressure activated design.

**PATIENT COMFORT:** High quality, ultra sharp tri-bevel needle or bi-bevel blade, high speed penetration.

**EFFICACY:** Variety of point configurations and penetration depths to suit most capillary blood requirements.

**PATIENT SAFETY:** Single-use only. Sterilised by gamma irradiation.







## Recommended use

1. Twist off the protective cap.
2. Select fingertip insertion site slightly off centre to minimise any discomfort and maximise blood flow. Hold the lancet firmly against site and press the release button to activate the device.
3. Gently massage the finger in the direction of the puncture site to obtain the required volume of blood.
4. Dispose the safety lancet in a suitable safety container.

## Technical Specifications

Colour Code	Specification	Penetration Depth	Article No.	Indicative use
Green	18G blade	1.8 mm	373213	For heel puncture in average-weight newborns and older children
Orange	21G needle	1.8 mm	377213	Haemoglobin (blood banks), cholesterol, blood typing, coagulation, blood gas and other diagnostic tests
Pink	21G needle	2.4 mm	378213	As the Orange lancet, but for thicker skin
Dark Blue	23G needle	1.8 mm	379213	Blood glucose testing and tests requiring larger samples
Yellow	26G needle	1.8 mm	375213	Diabetes clinics/hospital wards for blood glucose monitoring
Blue	26G needle	2.4 mm	376213	As the Yellow lancet, but for thicker skin
Rose	28G needle	1.5 mm	371213	Diabetes clinics/hospital wards for blood glucose monitoring
Purple	28G needle	1.8 mm	374213	As the Rose lancet, but for thicker skin
Beige	30G needle	1.8 mm	372213	Diabetes clinics/hospital wards for blood glucose monitoring. For minimal pain

Shelf life 5 years



Transit packaging

Pallet

### Packaging:

Primary packaging: 100 pcs.  
 Transit packaging: 1,000 pcs.  
 Pallet: 90,000 pcs.



## Vitrex Steel

### General Purpose Capillary Blood Lancet

Vitrex Steel lancets are traditional handheld, flat and stainless steel blood lancets for general purpose use. The steel lancets are available in standard and in allergy version.

#### LOW COST

Simple, flat, steel lancet.

#### SAMPLE VOLUME

Excellent blood flow.

#### HIGH QUALITY

Hardened surgical steel.

#### MINIMUM DISCOMFORT

Modern asymmetric design.

#### STERILE

Single-use only. Sterilised by gamma irradiation.

### Technical Specifications

Product	Description	Article No.
Vitrex Steel	Flat blade sterile lancet	350213
Vitrex Steel - allergy	Flat blade sterile lancet	365213

Shelf life 5 years



Transit packaging

Pallet

**Packaging:**  
 Primary packaging: 200 pcs.  
 Secondary packaging: 10,000 pcs.  
 Transit packaging: 40,000 pcs.  
 Pallet: 720,000 pcs.





## Vitrex Safety Containers

Vitrex Safety Containers are designed for hospitals and healthcare institutions for clinical disposal of lancets, needles, scalpels, syringes and other types of sharps.

Each type of lid is specially designed to help the user dispose needles, syringes, etc. lid with reversible closure can be safely fixed.

### Technical Specifications

Description	Size	Content	Article No.
Safety container	4.7 cm x 12.9 cm	0.2 l.	193800
Safety container	9 cm x 10.8 cm	0.5 l.	194000
Safety container	13.7 cm x 12.5 cm	1.5 l.	194200
Safety container	13.7 cm x 18 cm	2 l.	194300
Safety container	21.1 cm x 19.5 cm	5 l.	194700





4. Blood Collection Needle

3. Blood Collection Needle Holder

2. Safety Cap

1. Blood Collection Tube



## Vitrex Blood Collection System

New and higher standards in the diagnostic laboratory field require an improved performance of the blood collection system. Vitrex Blood Collection System is the answer.

Vitrex Blood Collection System consists of a full range of products including our Blood Collection Tubes, Needles and Holders, as well as the newly added products: Luer Slip adapter, Luer Slip adapter + holder, Luer Slip adapter + Intravenous needle and Luer Slip adapter + holder + Intravenous needle.

Vitrex offers two different brands of blood collection tubes: Vacusence and Vacusence+. Vacusence tubes are of Turkish origin with a lead time of 8-10 weeks. Vacusence+ tubes are made in Europe with a lead time of 3-4 weeks. Vitrex Blood Collection Tubes are made of unbreakable PET tube, butyl rubber stopper and polyethylene cap. We primarily offer medical paper labelled tubes, but tubes with transparent label or prebarcoded tubes are also available upon request.

Letter Code	Additive
K2E	EDTA Dipotassium Salt
K3E	EDTA Tripotassium Salt
9NC	Trisodium Citrate 9:1
4NC	Trisodium Citrate 4:1
FE	Sodium Fluoride I EDTA
FX	Sodium Fluoride/Potassium Oxalate
LH	Lithium Heparin
NH	Sodium Heparin
CAT	Clot Activator
Z	None





All components of Vitrex Blood Collection System are designed to fulfill the requirements of blood collection procedures, improve patient's comfort, help user's safety and get reliable test results. The latest products in our Blood Collection System range are of corresponding high quality and carefully selected to complete the range.

**USER VERSATILITY:** Series combination blood collection types for customer selection.

**USER CONVENIENCE:** Allows for multiple draws with a single vein puncture.

**EXCELLENT PERFORMANCE:** High quality rubber sleeve has excellent self-sealing performance.

**FLEXIBLE PACKAGING:** Single blister package, single pouch or single PE bag.

Description	Colour Code	Size	Diameter (mm)	Pcs./ Box	Pcs./ Carton	Article No.	Article No. Safety needle
Luer Slip adapter + Intravenous needle	Green ●	21G	0.80 x 19mm	100	2000	VBCS72221	VBCS73221S
Luer Slip adapter + Intravenous needle	Blue ●	23G	0.60 x 19mm	100	2000	VBCS72223 *	VBCS73223S *
Luer Slip adapter + holder + Intravenous needle	Green ●	21G	0.80 x 19mm	50	1000	VBCS82221	VBCS83221S
Luer Slip adapter + holder + Intravenous needle	Blue ●	23G	0.60 x 19mm	50	1000	VBCS82223 *	VBCS83223S *

\* Contact Sales Department for more information.

Shelf life 5 years



## Chiravac™ Blood Collection needles

Chiravac Blood Collection needles are made of polypropylene hub and stainless steel tube. They are pyrogen-free, latex-free, DEHP-free, PVC-free and non-toxic. The needles are intended for blood collection with vacuum tubes. They are individually packed in boxes of 100 pcs, cartons of 1000 pcs. Upon request the needles are also available as safety or invisible version.

**USER CONVENIENCE:** Colour-coded needle hub, screw-on needle hub compatible with all available holders, easy-to-open packaging and thin wall tube material.

**COMFORT:** Grinded, precision lancet point and silicone treated tip for smooth penetration. Comfortable collection experience.

**PATIENT SAFETY:** Single-use only. Sterilised by ETO.

### FDA CLEARED

### ACCESSORIES

Blood Collection Needle Holders with and without safety function are compatible with our Chiravac Blood Collection Needles and our different Blood Collection Tubes. The holders are packed in PE bags of 50 or 100 pcs.

Colour Code	Size Metric	Size G/"	Article No.
Blue ●	0.60 x 38 mm	23G x 1 1/2"	CHBCN23112
Black ●	0.70 x 38 mm	22G x 1 1/2"	CHBCN22112
Green ●	0.80 x 38 mm	21G x 1 1/2"	CHBCN21112
Yellow ●	0.90 x 38 mm	20G x 1 1/2"	CHBCN20112
Pink ●	1.20 x 38 mm	18G x 1 1/2"	CHBCN18112
Blue ●	0.60 x 25 mm	23G x 1"	CHBCN23100
Black ●	0.70 x 25 mm	22G x 1"	CHBCN22100
Green ●	0.80 x 25 mm	21G x 1"	CHBCN21100
Yellow ●	0.90 x 25 mm	20G x 1"	CHBCN20100
Pink ●	1.20 x 25 mm	18G x 1"	CHBCN18100

Shelf life 5 years

Description	Pcs./Box	Pcs./Carton	Article No.
Blood Collection Needle Holder	100	1,000	CHBCNH01
Blood Collection Needle Safety Holder	50	800	CHBCNHS01

Shelf life 5 years





## Vitrex Serum Clot Activator Tubes

Vitrex Serum Clot Activator Tubes are used for clinical chemistry, immunology, protein electrophoresis, serology, microbiology and toxicology. The inner wall of the Serum Clot Activator tube is specially coated with clot activator, which activates the coagulation process.



Transit packaging

Pallet

**Packaging:**

Primary packaging: 50/100 pcs.  
 Transit packaging: 800/1,000 pcs.  
 \* Pallet: 54,000 pcs.  
 \*\* Pallet: 48,000 pcs.  
 \*\*\* Pallet: 38,400 pcs.

Description	Draw Vol. (ml)	Size (mm)	Additive	Label	Article No.
Serum CAT/Clot Activator	1	13 x 75	Serum Clot Activator	Paper	101201+ *
Serum CAT/Clot Activator	2	13 x 75	Serum Clot Activator	Paper	102202+ *
Serum CAT/Clot Activator	3	13 x 75	Serum Clot Activator	Paper	103203+ *
Serum CAT/Clot Activator	3	13 x 100	Serum Clot Activator	Paper	108203+ **
Serum CAT/Clot Activator	4	13 x 75	Serum Clot Activator	Paper	104204+ *
Serum CAT/Clot Activator	4	13 x 100	Serum Clot Activator	Paper	108204+ **
Serum CAT/Clot Activator	5	13 x 75	Serum Clot Activator	Paper	109205+ *
Serum CAT/Clot Activator	5	13 x 100	Serum Clot Activator	Paper	108205+ **
Serum CAT/Clot Activator	6	13 x 100	Serum Clot Activator	Paper	105206+ **
Serum CAT/Clot Activator	7	13 x 100	Serum Clot Activator	Paper	108207+ **
Serum CAT/Clot Activator	8	16 x 100	Serum Clot Activator	Paper	108208+ ***
Serum CAT/Clot Activator	9	16 x 100	Serum Clot Activator	Paper	106209+ ***
Serum CAT/Clot Activator	10	16 x 100	Serum Clot Activator	Paper	107200+ ***

Shelf life 18 months



## Vitrex Serum Gel and Clot Activator Tubes

Vitrex Vacusence Serum Gel and Clot Activator Tubes contain inert gel; during centrifugation, the gel forms a stable barrier between serum and blood cells. The tubes allow to obtain more serum than regular tubes due to the cleaner separation of serum from the clot. The range of application is: clinical chemistry, immunology, protein electrophoresis, serology, microbiology and toxicology.



Transit packaging

Pallet

**Packaging:**

Primary packaging: 50/100 pcs.  
 Transit packaging: 800/1,000 pcs.  
 \* Pallet: 54,000 pcs.  
 \*\* Pallet: 48,000 pcs.  
 \*\*\* Pallet: 38,400 pcs.

Description	Draw Vol. (ml)	Size (mm)	Additive	Label	Article No.
Serum Gel and CAT/Clot Activator	1	13 x 75	Serum Gel and Clot Activator	Paper	102301+ *
Serum Gel and CAT/Clot Activator	2	13 x 75	Serum Gel and Clot Activator	Paper	101302+ *
Serum Gel and CAT/Clot Activator	3	13 x 75	Serum Gel and Clot Activator	Paper	102303+ *
Serum Gel and CAT/Clot Activator	3	13 x 100	Serum Gel and Clot Activator	Paper	102330+ **
Serum Gel and CAT/Clot Activator	3.5	13 x 75	Serum Gel and Clot Activator	Paper	103303+ *
Serum Gel and CAT/Clot Activator	4	13 x 75	Serum Gel and Clot Activator	Paper	106304+ *
Serum Gel and CAT/Clot Activator	4	13 x 100	Serum Gel and Clot Activator	Paper	102304+ **
Serum Gel and CAT/Clot Activator	5	13 x 100	Serum Gel and Clot Activator	Paper	104305+ **
Serum Gel and CAT/Clot Activator	6	13 x 100	Serum Gel and Clot Activator	Paper	102306+ **
Serum Gel and CAT/Clot Activator	8	16 x 100	Serum Gel and Clot Activator	Paper	105308+ ***
Serum Gel and CAT/Clot Activator	8.5	16 x 100	Serum Gel and Clot Activator	Paper	102308+ ***

Shelf life 18 months



## Vitrex Coagulation Tubes

Vitrex Coagulation Tubes are used to collect venous blood for coagulation tests. Coagulation Tubes have a buffered sodium citrate solution of 0.109 mol/l (3.2%) or 0.129 mol/l (3.8%). Double Tube technology provides an excellent condition for the test of PT and APTT values. The range of application is: Hemostasis system diagnostics.



Transit packaging

Pallet

**Packaging:**

Primary packaging: 50/100 pcs.  
 Transit packaging: 800/1,000 pcs.  
 \* Pallet: 54,000 pcs.  
 \*\* Pallet: 48,000 pcs.  
 \*\*\* Pallet: 38,400 pcs.

**3.2%**

**3.8%**

Description	Draw Vol. (ml)	Size (mm)	Additive	Label	Article No.	Article No.
Coagulation 9NC/Sodium Citrate	0.9	13 x 75	Sodium Citrate	Paper	101801+ *	106801+ *
Coagulation 9NC/Sodium Citrate	1.8	13 x 75	Sodium Citrate	Paper	102802+ *	106802+ *
Coagulation 9NC/Sodium Citrate, Double Wall	1.8	13 x 75	Sodium Citrate	Paper	1028020+ *	1068020+ *
Coagulation 9NC/Sodium Citrate	1.8	13 x 100	Sodium Citrate	Paper	103802+ **	106820+ **
Coagulation 9NC/Sodium Citrate	2.7	13 x 75	Sodium Citrate	Paper	103803+ *	107803+ *
Coagulation 9NC/Sodium Citrate, Double Wall	2.7	13 x 75	Sodium Citrate	Paper	1038030+ *	1078030+ *
Coagulation 9NC/Sodium Citrate	2.7	13 x 100	Sodium Citrate	Paper	103830+ **	107830+ **
Coagulation 9NC/Sodium Citrate	3.6	13 x 75	Sodium Citrate	Paper	103840+ *	108804+ *
Coagulation 9NC/Sodium Citrate	3.6	13x100	Sodium Citrate	Paper	103804+ **	108840+ **
Coagulation 9NC/Sodium Citrate	4.5	13 x 75	Sodium Citrate	Paper	103850+ *	108805+ *
Coagulation 9NC/Sodium Citrate	4.5	13 x 100	Sodium Citrate	Paper	103805+ **	108850+ **
Coagulation 9NC/Sodium Citrate #	8.1	16 x 100	Sodium Citrate	Paper	103808+ ***	108808+ ***

Shelf life 9 months  
 # 8.1 ml: Shelf life 12 months  
 Double Wall: Shelf life 13 months





## Vitrex EDTA Tubes

Vitrex EDTA Tubes are used for whole blood analysis within haematology. The range of application is: hematology, PCR analysis, blood typing. EDTA and Gel is mainly used for molecular diagnostics. The gel forms a resistant barrier between the cellular components of blood and serum during centrifugation.

### K2EDTA

Description	Draw Vol. (ml)	Size (mm)	Additive	Label	Plain	+ Gel
					Article No.	Article No.
K2E/K2EDTA	1	13 x 75	K2EDTA	Paper	101901+ *	112201+ *
K2E/K2EDTA	2	13 x 75	K2EDTA	Paper	102902+ *	112202+ *
K2E/K2EDTA	3	13 x 75	K2EDTA	Paper	103903+ *	111203+ *
K2E/K2EDTA	3	13 x 100	K2EDTA	Paper	103930+ **	113203+ **
K2E/K2EDTA	3.5	13 x 75	K2EDTA	Paper		112235+ *
K2E/K2EDTA	4	13 x 75	K2EDTA	Paper	104904+ *	112240+ *
K2E/K2EDTA	4	13 x 100	K2EDTA	Paper	105904+ **	112204+ **
K2E/K2EDTA	5	13 x 75	K2EDTA	Paper	105905+ *	
K2E/K2EDTA	5	13 x 100	K2EDTA	Paper	105950+ **	112205+ **
K2E/K2EDTA	6	13 x 100	K2EDTA	Paper	106906+ **	112206+ **
K2E/K2EDTA	7	13 x 100	K2EDTA	Paper	106907+ **	
K2E/K2EDTA	8	16 x 100	K2EDTA	Paper	106908+ ***	113208+ ***
K2E/K2EDTA	8.5	16 x 100	K2EDTA	Paper		113209+ ***
K2E/K2EDTA	9	16 x 100	K2EDTA	Paper	107909+ ***	113290+ ***
K2E/K2EDTA	9.5	16 x 100	K2EDTA	Paper	108909+ ***	

Shelf life 18 months



Transit packaging

Pallet

**Packaging:**

Primary packaging: 50/100 pcs.  
 Transit packaging: 800/1,000 pcs.  
 \* Pallet: 54,000 pcs.  
 \*\* Pallet: 48,000 pcs.  
 \*\*\* Pallet: 38,400 pcs.

**K3EDTA**

**Plain + Gel**

Description	Draw Vol. (ml)	Size (mm)	Additive	Label	Article No.	Article No.
K3E/K3EDTA	1	13 x 75	K3EDTA	Paper	111101+ *	122101+ *
K3E/K3EDTA	2	13 x 75	K3EDTA	Paper	112102+ *	122102+ *
K3E/K3EDTA	3	13 x 75	K3EDTA	Paper	113103+ *	123103+ *
K3E/K3EDTA	3	13 x 100	K3EDTA	Paper	113130+ **	123130+ **
K3E/K3EDTA	3.5	13 x 75	K3EDTA	Paper		124135+ *
K3E/K3EDTA	4	13 x 75	K3EDTA	Paper	113104+ *	125140+ *
K3E/K3EDTA	4	13 x 100	K3EDTA	Paper	114104+ **	125104+ **
K3E/K3EDTA	5	13 x 75	K3EDTA	Paper	114105+ *	
K3E/K3EDTA	5	13 x 100	K3EDTA	Paper	114150+ **	125150+ **
K3E/K3EDTA	6	13 x 100	K3EDTA	Paper	116106+ **	126106+ **
K3E/K3EDTA	7	13 x 100	K3EDTA	Paper	116107+ **	
K3E/K3EDTA	8	16 x 100	K3EDTA	Paper	114108+ ***	127108+ ***
K3E/K3EDTA	8.5	16 x 100	K3EDTA	Paper	114185+ ***	128185+ ***
K3E/K3EDTA	9	16 x 100	K3EDTA	Paper	117109+ ***	129109+ ***

Shelf life 18 months



## Vitrex Heparin Tubes

Vitrex Heparin Tubes are coated to inhibit clotting. Heparin Tubes are used to produce plasma for biochemical testing. The Heparin Tubes are also available with Gel separator. The range of application is: clinical chemistry and trace mineral testing.

### Lithium Heparin

Description	Draw Vol. (ml)	Size (mm)	Additive	Label	Plain	+ Gel
					Article No.	Article No.
LH/Lithium Heparin	1	13 x 75	Lithium Heparin	Paper	105401+ *	102701+ *
LH/Lithium Heparin	2	13 x 75	Lithium Heparin	Paper	101402+ *	102702+ *
LH/Lithium Heparin	3	13 x 75	Lithium Heparin	Paper	101403+ *	101703+ *
LH/Lithium Heparin	3	13 x 100	Lithium Heparin	Paper	101404+ **	101730+ **
LH/Lithium Heparin	4	13 x 75	Lithium Heparin	Paper	105404+ *	
LH/Lithium Heparin	4	13 x 100	Lithium Heparin	Paper	102440+ **	102704+ **
LH/Lithium Heparin	5	13 x 75	Lithium Heparin	Paper	105450+ *	
LH/Lithium Heparin	5	13 x 100	Lithium Heparin	Paper	105405+ **	102705+ **
LH/Lithium Heparin	6	13 x 100	Lithium Heparin	Paper	103406+ **	
LH/Lithium Heparin	7	13 x 100	Lithium Heparin	Paper	103407+ **	
LH/Lithium Heparin	8	16 x 100	Lithium Heparin	Paper	105408+ ***	103706+ ***
LH/Lithium Heparin	9	16 x 100	Lithium Heparin	Paper	104409+ ***	102709+ ***

Shelf life 18 months





Transit packaging

Pallet

**Packaging:**

Primary packaging: 50/100 pcs.  
 Transit packaging: 800/1,000 pcs.  
 \* Pallet: 54,000 pcs.  
 \*\* Pallet: 48,000 pcs.  
 \*\*\* Pallet: 38,400 pcs.

## Sodium Heparin

**Plain + Gel**

Description	Draw Vol. (ml)	Size (mm)	Additive	Label	Article No.	Article No.
NH/Sodium Heparin	1	13 x 75	Sodium Heparin	Paper	104501+ *	104601+ *
NH/Sodium Heparin	2	13 x 75	Sodium Heparin	Paper	104502+ *	104602+ *
NH/Sodium Heparin	3	13 x 75	Sodium Heparin	Paper	104530+ *	101603+ *
NH/Sodium Heparin	3	13 x 100	Sodium Heparin	Paper	104503+ **	104630+ **
NH/Sodium Heparin	4	13 x 75	Sodium Heparin	Paper	101504+ *	
NH/Sodium Heparin	4	13 x 100	Sodium Heparin	Paper	104504+ **	104604+ **
NH/Sodium Heparin	5	13 x 75	Sodium Heparin	Paper	104550+ *	
NH/Sodium Heparin	5	13 x 100	Sodium Heparin	Paper	104505+ **	102605+ **
NH/Sodium Heparin	6	13 x 100	Sodium Heparin	Paper	102506+ **	
NH/Sodium Heparin	7	13 x 100	Sodium Heparin	Paper	102507+ **	
NH/Sodium Heparin	8	16 x 100	Sodium Heparin	Paper	104509+ ***	103608+ ***
NH/Sodium Heparin	9	16 x 100	Sodium Heparin	Paper	103509+ ***	104609+ ***

Shelf life 18 months



## Vitrex No Additive Tubes

Vitrex No Additive Tubes do not contain any additives. The tubes are used to collect samples of body fluids (blood, urine, cerebrospinal fluid, exudates, etc.). The tubes can be used for specimen analysis, storage and transport. The range of application is: analysis of body fluids in clinical biochemistry, serology and immunology.



Transit packaging

Pallet

**Packaging:**  
 Primary packaging: 50/100 pcs.  
 Transit packaging: 800/1,000 pcs.  
 \* Pallet: 54,000 pcs.  
 \*\* Pallet: 48,000 pcs.  
 \*\*\* Pallet: 38,400 pcs.

Description	Draw Vol. (ml)	Size (mm)	Additive	Label	Article No.
Z/No Additive	1	13 x 75	No additive	Paper	105101+ *
Z/No Additive	2	13 x 75	No additive	Paper	101102+ *
Z/No Additive	3	13 x 75	No additive	Paper	105103+ *
Z/No Additive	3	13 x 100	No additive	Paper	105130+ **
Z/No Additive	4	13 x 75	No additive	Paper	102204+ *
Z/No Additive	4	13 x 100	No additive	Paper	105104+ **
Z/No Additive	5	13 x 75	No additive	Paper	105150+ *
Z/No Additive	5	13 x 100	No additive	Paper	105105+ **
Z/No Additive	6	13 x 100	No additive	Paper	103106+ **
Z/No Additive	7	13 x 100	No additive	Paper	105107+ **
Z/No Additive	8	16 x 100	No additive	Paper	105108+ ***
Z/No Additive	9	16 x 100	No additive	Paper	104109+ ***
Z/No Additive	10	16 x 100	No additive	Paper	105110+ ***

Shelf life 18 months



## Vitrex Glucose Tubes

Vitrex Glucose Tubes contain Sodium Fluoride and Potassium Oxalate. Glucose tubes are used for glucose determinations like blood sugar and sugar tolerance. The tubes contain a glucose stabiliser, which allows you to block the process of glycolysis for up to 24 hours at room temperature. The range of application is: research of glucose and lactate.



Transit packaging

Pallet

**Packaging:**

Primary packaging:

50/100 pcs.

Transit packaging:

800/1,000 pcs.

\* Pallet:

54,000 pcs.

\*\* Pallet:

48,000 pcs.

\*\*\* Pallet:

38,400 pcs.

Description	Draw Vol. (ml)	Size (mm)	Additive	Label	Article No.
FX/ Sodium Fluoride + Potassium Oxalate	1	13 x 75	Sodium Fluoride + Potassium Oxalate	Paper	111401+ *
FX/ Sodium Fluoride + Potassium Oxalate	2	13 x 75	Sodium Fluoride + Potassium Oxalate	Paper	111402+ *
FX/ Sodium Fluoride + Potassium Oxalate	2	13 x 100	Sodium Fluoride + Potassium Oxalate	Paper	113420+ **
FX/ Sodium Fluoride + Potassium Oxalate	3	13 x 75	Sodium Fluoride + Potassium Oxalate	Paper	113430+ *
FX/ Sodium Fluoride + Potassium Oxalate	3	13 x 100	Sodium Fluoride + Potassium Oxalate	Paper	113403+ **
FX/ Sodium Fluoride + Potassium Oxalate	4	13 x 75	Sodium Fluoride + Potassium Oxalate	Paper	112404+ *
FX/ Sodium Fluoride + Potassium Oxalate	4	13 x 100	Sodium Fluoride + Potassium Oxalate	Paper	113404+ **
FX/ Sodium Fluoride + Potassium Oxalate	5	13 x 75	Sodium Fluoride + Potassium Oxalate	Paper	113450+ *
FX/ Sodium Fluoride + Potassium Oxalate	5	13 x 100	Sodium Fluoride + Potassium Oxalate	Paper	113405+ **
FX/ Sodium Fluoride + Potassium Oxalate	6	13 x 100	Sodium Fluoride + Potassium Oxalate	Paper	113406+ **
FX/ Sodium Fluoride + Potassium Oxalate	7	13 x 100	Sodium Fluoride + Potassium Oxalate	Paper	113407+ **
FX/ Sodium Fluoride + Potassium Oxalate	8	16 x 100	Sodium Fluoride + Potassium Oxalate	Paper	113408+ ***
FX/ Sodium Fluoride + Potassium Oxalate	9	16 x 100	Sodium Fluoride + Potassium Oxalate	Paper	113409+ ***

Shelf life 18 months





## Vitrex Sedimentation Systems

Vitrex Sedimentation Tubes contain 3.2% sodium citrate for ESR test. The tubes are available with an open or closed sedimentation system.



Transit packaging

Pallet

**Packaging:**

Primary packaging: 50/100 pcs.

Transit packaging: 800/1,000 pcs.

\* Pallet: 54,000 pcs.

\*\* Pallet: 48,000 pcs.

Description	Draw Vol. (ml)	Size (mm)	Additive	Label	Article No.
ESR Tube	1.6	13 x 75	4NC/Sodium Citrate 3.2%	Paper	112602+ *
ESR Tube	2	13 x 75	4NC/Sodium Citrate 3.2%	Paper	111602+ *
ESR Tube	2.4	13 x 75	4NC/Sodium Citrate 3.2%	Paper	113624+ *
ESR Tube	2.4	13 x 100	4NC/Sodium Citrate 3.2%	Paper	114624+ **
ESR Tube	3	13 x 75	4NC/Sodium Citrate 3.2%	Paper	114603+ *

Shelf life 9 months



## Accessories

Vitrex Accessories are necessary products for blood collection.

### Vitrex Alcohol Swabs

Vitrex Alcohol Swabs are an easy and convenient way to cleanse the skin and help fight bacteria at the site of application. Use as an antiseptic skin cleanser before injections and blood sampling.

The size of the Disinfection Swab is 30x60 mm. Each Alcohol Swab is individually sealed and disposable for convenience and safety.

### Technical Specifications

Description	Size	Content	Identification No.	Pcs./Box	Article No.
Alcohol Swabs	30 x 60 mm	82% Ethanol	1U8K-YGJD-J103-YQRW	100	521413
Alcohol Swabs	30 x 60 mm	82% Ethanol + 0.5% Chlorhexidine	NQ1P-3GSC-U100-G3GE	100	522413

Shelf life 5 years



Transit packaging

Pallet

Alcohol Swabs are currently approved for sales in: Sweden, Finland, UK, Germany, France and Austria.

(Updated: 2023-10. Please consult our website: [vitrexmg.com](http://vitrexmg.com) for new updates in the list of approved countries).

**Packaging:**  
 Primary packaging: 100 pcs.  
 Transit packaging: 10,000 pcs.  
 Pallet: 400,000 pcs.

Regulated according to: REGULATION (EU) No 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 May 2012 concerning the making available on the market and use of biocidal products.





## Accessories

Vitrex Accessories are necessary products for blood collection.

### Vitrex Tourniquets

Vitrex Tourniquets are used for tying the vein during blood collection. They are safe and easy to use. The tourniquets are available in automatic version for both adults and children, but also in a manual, disposable version as one-size. Latex free.

Description	Pcs./Box	Article No.
Vitrex Tourniquets with buckle, Adult	50	TM1150
Vitrex Tourniquets with buckle, Children	50	TM1125
Vitrex Disposable Tourniquets	25 pcs./roll	TM1175

#### Tourniquets with buckle



Transit packaging

Pallet

**Packaging:**  
 Primary packaging: 50 pcs.  
 Transit packaging: 500 pcs.  
 Pallet: 9,000 pcs.

#### Tourniquets Disposable



Transit packaging

Pallet

**Packaging:**  
 Primary packaging: 1 roll  
 Transit packaging: 100 rolls  
 Pallet: 3,000 rolls







# VMG

## Vitrex Medical Group



## VMG Vitrex Medical Group

CTI group has per November 2024 been renamed to “VMG Vitrex Medical Group”. The strategy of the group remains the same - to develop and distribute healthcare products of great quality. The vision of the group has changed and instead of being a group of individual companies, the vision is to create “one team” by migrating the companies’ in terms of strategy, values, departments, processes, know-how and capabilities.

As VMG Vitrex Medical Group, we strive to be the leading European medical device & IVD manufacturing group, developing, producing and supplying high-quality healthcare products and tailor-made med-tech solutions that embody special expertise, reliability, trustworthiness and are made with respect and dedication to enhance the life of healthcare professionals and their patients worldwide.

## Manufacturing sites

### CHIRANA T. Injecta, Slovakia

CHIRANA T. Injecta is a global, state of the art manufacturer of healthcare products, which was founded in 1935.

In 1947 CHIRANA T. Injecta started manufacturing glass syringes and they have ever since focused on development and production of high quality, disposable syringes, needles and metal tubes for the healthcare sector and med-tech companies.

### VITREX Medical, Denmark

Vitrex Medical was founded in 1967, where they started producing resistors for televisions, which later on evolved to producing capillary tubes to transport liquids.

With more than 50 years of experience Vitrex Medical has become the largest manufacturer of capillary tubes in the world today by developing equipment, establishing technologies, and optimizing production processes.

### CHIRANA T. Injecta, Czech Republic

CHIRANA T. Injecta was founded in 1930. Since the early 1990s they have made substantial investments in upgrading the production resources, enabling the company to offer products in a unique quality.

Their more than 90 years of experience with manufacturing sutures has resulted in top priority within quality control, product development and sutures manufactured in line with state of the art technology.

## **VITREX** lab

Member of Vitrex Medical Group

New and higher standards in the diagnostic laboratory field require an improved performance of laboratory products. Vitrex Lab products and accessories are designed to fulfill the requirements of lab procedures, patient's comfort and user's safety. In addition to the comprehensive, standardized range of products, we have developed a large variety of specialized products.

### **Range of products:**

- Capillary tubes and Haematocrit tubes
- Micro-pipettes
- Safety lancets
- Vacuum tubes and Blood collection needles
- Alcohol swabs and Safety containers

## **VITREX** diabetes

Member of Vitrex Medical Group

Diabetes is a huge global challenge. There are 415 million people with diabetes worldwide and by 2040 every tenth person is expected to have diabetes. An effective treatment also involves as pleasant a treatment as possible. We aim to deliver quality healthcare solutions for diabetics to meet the demand of both professionals and individual patients. All people are different, so it requires a carefully selected portfolio of products.

### **Range of products:**

- Pen needles
- Dual safety pen needles
- Diabetic lancets
- Insulin syringes

## **CHIRANA** injecta

Member of Vitrex Medical Group

Drug delivery products are used for medical purposes with the intention of diagnosing, preventing or treating a disease or sickness. These products contribute to help improving the quality of life for patients. We offer a comprehensive range of high-quality drug delivery products for the healthcare sector, which vary in intended use and indications for use.

### **Range of products:**

- 2-part and 3-part syringes
- Perfusion syringes
- Hypodermic needles
- IV administration products
- Examination products

## **CHIRMAX** surgical

Member of Vitrex Medical Group

For different specialties, procedures and tissue types within human, veterinary and dental market, Chirmax Surgical provides state of the art surgical sutures and meshes to improve the lives of patients worldwide. Our surgical sutures are manufactured in Europe and each individual production process is subject to strict scientific quality control.

### **Range of products:**

- Surgical sutures, ligatures and meshes
- Veterinary bottles and eye needles
- Microsurgery and cardiovascular sutures
- Antibacterial sutures

## **CHIRANA** med-tech

Member of Vitrex Medical Group

Our CDMO solutions enables companies to leverage our advanced manufacturing capabilities to produce high-quality medical devices under their own brand. We offer versatile capabilities and technologies within glass, plastic, metal and wire processing as well as plastic component molding, assembly, packing, sterilization and finishing.

### **Examples of CDMO projects:**

- Specialty drug delivery cannulas
- Pre-fill syringe cannulas
- Plunger rod for PFS
- Capillary tubes for IVF procedures
- Medical procedure kits for e.g. vaccination





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