

# KEMICO

Kuwaiti Egyptian For Medical Industries Co.  
الشركة الكويتية المصرية للصناعات الطبية



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Kemico Vacutainer blood collection system is a closed evacuated system, which consists of a sterile double ended needle with safety valve, Kemico Vacutainer holder and sterile Kemico Vacutainer evacuated blood collection tubes with predetermined volume.

Blood collected by threading the sleeve-covered end of the needle (NP) into the holder, then puncturing the patient's vein with the other end (IV). After performing vein puncture, multiple tubes can then pushed into the holder one at a time, and the predetermined vacuum of the tube allows the required volume of blood to be collected, thus resulting in an optimal blood to additive ratio. There are many advantages to using Kemico Vacutainer blood collection system. Some of the most important are:

- It prevents exposure by ensuring blood flows directly from the patient vein into the tube
- There is a wide range of color-coded tubes available with additives for a variety of analytical tests covering laboratory disciplines such as hematology, clinical chemistry, immunology chemistry, coagulation, blood banking and others
- There is no manual influence on the drawing of blood so the process remains consistent. The system is a more reliable alternative to the traditional needle and syringe technique
- The tube cap closures color-coded according to the additive and the international standard (ISO 6710).
- Kemico Vacutainer (plastic) blood collection tubes are made of clear latex free PET (Polyethylene Teraphthalate), which is shatter resistant and offers a clinically tested safer alternative to glass
- Kemico Diagnostics Pre analytical Systems also provide a range of other products including

- Blood collection needles in a variety of gauges and lengths
- Various holders, adaptors and accessories, such as tourniquets
- Products for the collection and analysis of urine



# Pre-analytical Variables



46 - 68% of all laboratory errors occur in the pre-analytical phase (Becan-Mcbride K. Laboratory Sampling: Does the Process Affect the Outcome?

Journal of Intravenous Nursing May - June 1999; Vol. 22, No. 3). 2.5% of pre analytical laboratory errors may cause an erroneous medical decision

( M. Plebani Carraro P. Mistakes in a stat Laboratory types and frequency. Clinical Chemistry. 1997; 43:8 13481351-)

In order for results to be as accurate as possible and to reduce the number of samples that need to be re-drawn, it is important to be aware of pre-analytical variables in the laboratory



## Tourniquet time

The tourniquet must be loosened after no more than one minute. If applied for longer the pressure from the tourniquet may cause elevated potassium levels. The tourniquet should be positioned 7.5cm to 10cm above the puncture site.

## Mixing

Most tubes contain an additive. Regardless of the additive type, all tubes should be gently inverted to ensure thorough mixing of the blood with the additive. Tubes with anticoagulants such as EDTA, heparin etc., must be mixed to ensure that the specimen does not clot. For example insufficient mixing could lead to Platelet clumping in EDTA Tubes with a clot activator such as Serum Tubes must also be mixed or the specimen may not clot completely in the recommended time

## Vein puncture site

Veins that have thickened walls are harder to puncture than normal. In such circumstances, or if the chosen vein has been damaged by frequent vein punctures, it is best to look for another vein at a different site.

## Storage of tubes

Store all tubes at 425°-C (3977- °F), unless otherwise noted on the package label. Extreme temperatures can reduce the effectiveness of the tubes and cause abstract results. Always remember to rotate your stock.

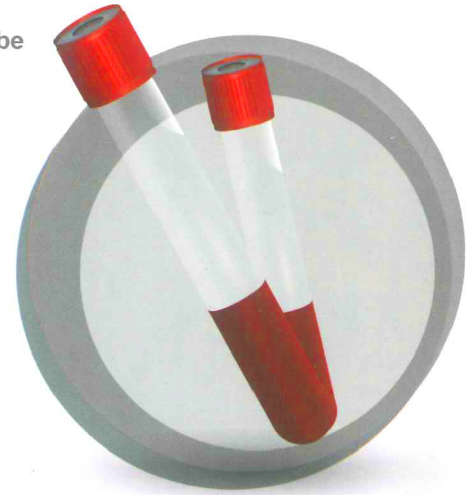
## Centrifugation speed

The clotting of a sample should totally completed before centrifugation of serum tubes. Specific centrifugation instructions are described in the instructions for use

# Kemico Serum Vacutainers

Serum tubes are used to obtain a serum sample. The plastic tubes are available in a range of sizes identified by a red cap. Serum tubes have the additive silica sprayed on the inner walls of the tube to accelerate the clotting process. The minimum recommended clotting time for serum tubes for patients without anticoagulant is 60 minute Single use, evacuated sterile blood collection tube

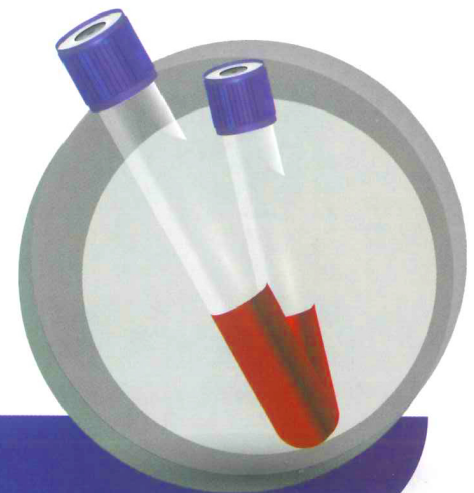
- Contains a spray-dried clot activator
- Used to obtain a serum sample
- Pack/Case Quantity: 1001500/ ^
- Centrifugation: <1300 x g (RCF) for 10 min at 25°C



### Mixing recommendation:

Serum tubes should be gently inverted 180: and back 56- times

Cat. No.	Description	Cap Color
KV20010	plain tube 75*13mm with volume 2ml	Red
KV25010	plain tube 75*13mm with volume 2.5ml	Red
KV27010	plain tube 75*13mm with volume 2.7ml	Red
KV30010	plain tube 75*13mm with volume 3ml	Red
KV35010	plain tube 75*13mm with volume 3.5 ml	Red
KV40010	plain tube 75*13mm with volume 4ml	Red
KV20011	tube 75*13mm with volume 2ml with Clot activator	Red
KV25011	tube 75*13mm with volume 2.5ml with Clot activator	Red
KV27011	tube 75*13mm with volume 2.7ml with Clot activator	Red
KV30011	tube 75*13mm with volume 3ml with Clot activator	Red
KV35011	tube 75*13mm with volume 3.5 ml with Clot activator	Red
KV40011	tube 75*13mm with volume 4ml with Clot activator	Red
KV20030	plain tube 75*13mm with volume 2ml with gel barrier	yellow
KV25030	plain tube 75*13mm with volume 2.5ml with gel barrier	yellow
KV27030	plain tube 75*13mm with volume 2.7ml with gel barrier	yellow
KV30030	plain tube 75*13mm with volume 3ml with gel barrier	yellow
KV35030	plain tube 75*13mm with volume 3.5 ml with gel barrier	yellow
KV40030	plain tube 75*13mm with volume 4ml with gel barrier	yellow
KV20031	tube 75*13mm with volume 2ml with Clot activator with gel barrier	yellow
KV25031	tube 75*13mm with volume 2.5ml with Clot activator with gel barrier	yellow
KV27031	tube 75*13mm with volume 2.7ml with Clot activator with gel barrier	yellow
KV30031	tube 75*13mm with volume 3ml with Clot activator with gel barrier	yellow
KV35031	tube 75*13mm with volume 3.5 ml with Clot activator with gel barrier	yellow
KV40031	tube 75*13mm with volume 4ml with Clot activator with gel barrier	yellow



# Kemico Coagulation Tubes

(Buffered Sodium Citrate)

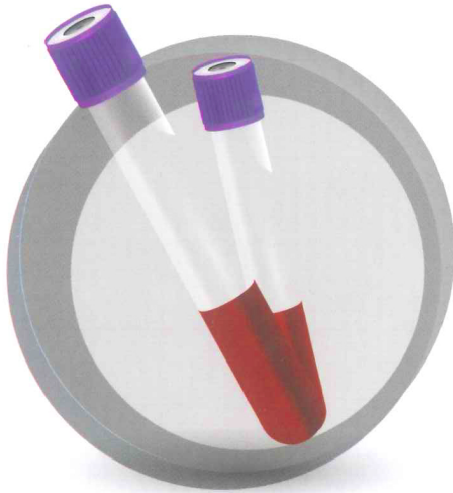
Kemico Citrate tubes are used to obtain a citrate plasma sample. They contain buffered sodium citrate solution, which is used as an anticoagulant. The tubes are available in a range of sizes in plastic identified by a light blue cap. Single use, evacuated, sterile blood collection tube

Cat. No.	Description	Cap Color
KV20070	Tube 75*13mm with volume 2ml with sodium citrate 3.2concentration	Blue
KV25070	Tube 75*13mm with volume 2.5ml with sodium citrate 3.2concentration	Blue
KV27070	Tube 75*13mm with volume 2.7ml with sodium citrate 3.2concentration	Blue
KV30070	Tube 75*13mm with volume 3ml with sodium citrate 3.2concentration	Blue
KV35070	Tube 75*13mm with volume 3.5 ml with sodium citrate 3.2concentration	Blue
KV40070	Tube 75*13mm with volume 4 ml with sodium citrate 3.2concentration	Blue

- Contains buffered Trisodium Citrate solution
- Made from PET
- Used to obtain a citrate plasma sample
- Pack/Case Quantity: 1001500/
- Centrifugation: <1300 x g (RCF) for 10 min at 25°C

# Kemico EDTA Tubes

EDTA tubes are used to obtain a whole blood or EDTA plasma sample. The plastic tubes are identified by a lavender cap. Generally, K2 or K3 Potassium Salt of EDTA (Ethylene Diamine Tetra Acetic acid) is used as an anticoagulant. There are no functional differences between the two additives.



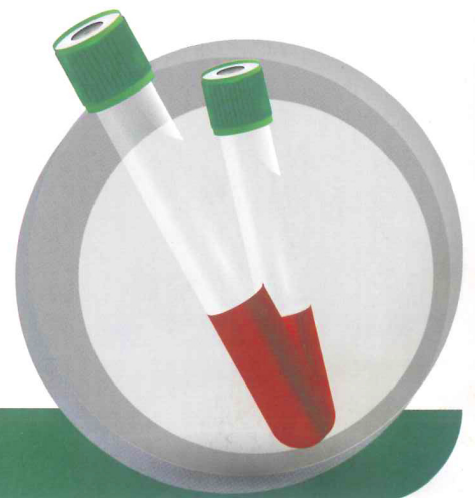
Cat. No.	Description	Cap Color
KV20040	Tube 75*13mm with volume 2ml with EDTA(K2)	Lavender
KV25040	Tube 75*13mm with volume 2.5ml with EDTA(K2)	Lavender
KV27040	Tube 75*13mm with volume 2.7ml with EDTA(K2)	Lavender
KV30040	Tube 75*13mm with volume 3ml with EDTA(K2)	Lavender
KV35040	Tube 75*13mm with volume 3.5 ml with EDTA(K2)	Lavender
KV40040	Tube 75*13mm with volume 4 ml with EDTA(K2)	Lavender
KV20041	Tube 75*13mm with volume 2ml with EDTA(k3)	Lavender
KV25041	Tube 75*13mm with volume 2,5ml with EDTA(k3)	Lavender
KV27041	Tube 75*13mm with volume 2.7ml with EDTA(k3)	Lavender
KV30041	Tube 75*13mm with volume 3ml with EDTA(k3)	Lavender
KV35041	Tube 75*13mm with volume 3.5 ml with EDTA(k3)	Lavender
KV40041	Tube 75*13mm with volume 4 ml with EDTA(k3)	Lavender
KV20032	Tube 75*13mm with volume 2ml with EDTA(K2) with gel barrier	yellow
KV25032	Tube 75*13mm with volume 2.5ml with EDTA(K2) with gel barrier	yellow
KV27032	Tube 75*13mm with volume 2.7ml with EDTA(K2) with gel barrier	yellow
KV30032	Tube 75*13mm with volume 3ml with EDTA(K2) with gel barrier	yellow
KV35032	Tube 75*13mm with volume 3.5 ml with EDTA(K2) with gel barrier	yellow
KV40032	Tube 75*13mm with volume 4 ml with EDTA(K2) with gel barrier	yellow

## The physical difference between the additives is:

- K3EDTA is a liquid solution in the Vacutainer Tubes
- K2EDTA is a liquid solution that is spray coated onto the interior surface of the Vacutainer Tube single use, evacuated, sterile blood collection tube
- Contains K2EDTA or K3EDTA
- Used to obtain a whole blood or EDTA plasma sample

## Mixing recommendation:

EDTA tubes should be gently inverted 180° and back 810°- times



# Kemico Plasma Tubes (Heparin)

Kemico Plasma tubes contain Sodium or Lithium Heparin and are used to obtain a plasma sample. The plastic tubes are available in a range of sizes and can be identified by a green cap. The concentration of the Lithium and Sodium Heparin additive is 17 International Units of Heparin/ml of blood. The additive in the tube is spray coated on the inner wall. Heparin tubes can be centrifuged immediately after collection.

Cat. No.	Description	Cap Color
KV20020	Tube 75*13mm with volume 2ml with sodium heparin	Green
KV25020	Tube 75*13mm with volume 2.5ml with sodium heparin	Green
KV27020	Tube 75*13mm with volume 2.7ml with sodium heparin	Green
KV30020	Tube 75*13mm with volume 3ml with sodium heparin	Green
KV35020	Tube 75*13mm with volume 3.5 ml with sodium heparin	Green
KV40020	Tube 75*13mm with volume 4 ml with sodium heparin	Green
KV20021	Tube 75*13mm with volume 2ml with lithium heparin	Green
KV25021	Tube 75*13mm with volume 2.5ml with lithium heparin	Green
KV27021	Tube 75*13mm with volume 2.7ml with lithium heparin	Green
KV30021	Tube 75*13mm with volume 3ml with lithium heparin	Green
KV35021	Tube 75*13mm with volume 3.5 ml with lithium heparin	Green
KV40021	Tube 75*13mm with volume 4 ml with lithium heparin	Green

Single use, sterile blood collection tube

- Contains Lithium Heparin
- Used to obtain a plasma sample
- Centrifugation Instructions:

< 1300g for 10 minutes at 25°C room temperature

## Mixing recommendation:

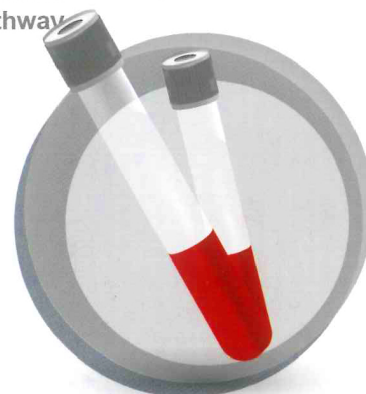
Plasma tubes should be gently inverted 180° and back 810°- times

# Kemico Glucose preservation Tubes

Kemico Sodium Fluoride/Potassium Oxalate and tubes are used for glucose determinations. The tubes are available in plastic and identified by a grey cap.

Glucose values in unpreserved blood samples decrease quickly after collection as glucose is metabolized by the blood cells. The additives contained in the tubes will stop enzymatic activity at the glycolytic pathway.

Cat. No.	Description	Cap Color
KV20060	Tube 175*3mm with volume 2 ml with fluoride oxalate	Gray
KV25060	Tube 75*13mm with volume 2.5ml with fluoride oxalate	Gray
KV27060	Tube 75*13mm with volume 2.7ml with fluoride oxalate	Gray
KV30060	Tube 75*13mm with volume 3ml with fluoride oxalate	Gray
KV35060	Tube 75*13mm with volume 3.5 ml with fluoride oxalate	Gray
KV40060	Tube 75*13mm with volume 4 ml with fluoride oxalate	Gray

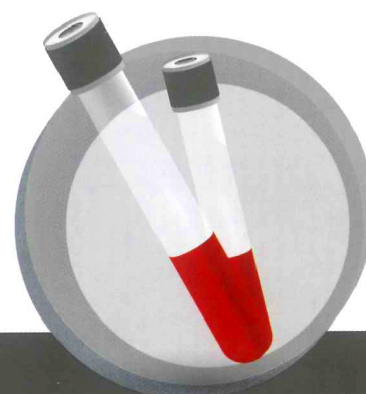


## Single use, evacuated, sterile blood collection tube

- Contains Fluoride / Oxalate
- Used to obtain a plasma sample, in which the glucose is stabilized
- Centrifugation Instructions: <1300g for 10 minutes 25C room temperature

## Mixing recommendation:

Fluoride/Oxalate tubes should be gently inverted 180; and back 810- times



# Kemico ESR tubes

Kemico ESR tubes contain buffered sodium citrate used to obtain a whole blood sample for ESR determination without the need for opening a tube for blood pipetting or transfer. They are available PET Tube and identified by a black cap. Tube has to be mixed 810- times

## Single use evacuated sterile blood collection tube

- Contains buffered Trisodium Citrate solution
- Used to obtain a whole blood sample for ESR determination

## Mixing recommendation:

ESR tubes should be gently inverted 180. and back 8- 10 times

Cat. No.	Description	Cap Color
KV20050	Tube 75*13mm with volume 2ml with sodium citrate 3.2concentration	Black
KV25050	Tube 75*13mm with volume 2.5ml with sodium citrate 3.2concentration	Black
KV27050	Tube 75*13mm with volume 2.7ml with sodium citrate 3.2concentration	Black
KV30050	Tube 75*13mm with volume 3ml with sodium citrate 3.2coneentration	Black
KV35050	Tube 75*13mm with volume 3.5 ml with sodium citrate 3.2concentration	Black
KV40050	Tube 75*13mm with volume 4 ml with sodium citrate 3.2concentration	Black

# Urine cup

Code	Description
KUSI20R	Urine cup 120ml Sterile with red cap
KUSI20B	Urine cup 120ml Sterile with Blue cap
KUSI20W	Urine cup 120ml Sterile with White cap
KUSI20Y	Urine cup 120ml Sterile with Yellow cap
KUNI20R	Urine cup 120ml non Sterile with red cap
KUNI20B	Urine cup 120ml non Sterile with Blue cap
KUNI20W	Urine cup 120ml non Sterile with White cap
KUNI20Y	Urine cup 120ml non Sterile with Yellow cap

This urine specimen container cups are widely used for specimen collection and transportation among drug and urine testing facilities due to the high quality and user friendly design.

## Features

Tight sealing screw cap fluid & air tight Easy to close Graduated on the inner surface Pressure resistant Autoclavable Surface with special treatment for labelling Optically clear polypropylene (P-P) sterile with red cap sterile with Blue cap sterile with White cap sterile with yellow cap non sterile with red cap non sterile with Blue cap non sterile with White cap non sterile with yellow cap

