



The
Scientific
Group

BLOOD COLLECTION SYSTEM



BECAUSE **LIFE** MATTERS...

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SGVac Blood Collection System

In order to reduce the pre analytical errors that can occur when drawing blood samples there are recommended procedures to be followed.

These include using the SGVac closed evacuated blood collection system, in the correct order of the tubes and with the correct use of a tourniquet.



SGVac Caps and Labels are colour coded relating to the particular tube and this is in accordance with the current international Standard (ISO 6710:2017).

Certification: ISO 13485.



SGVac Tubes are made of PET (Polyethylene Terephthalate) which was engineered to be shatterproof and is a safe alternative to glass blood collection tubes.

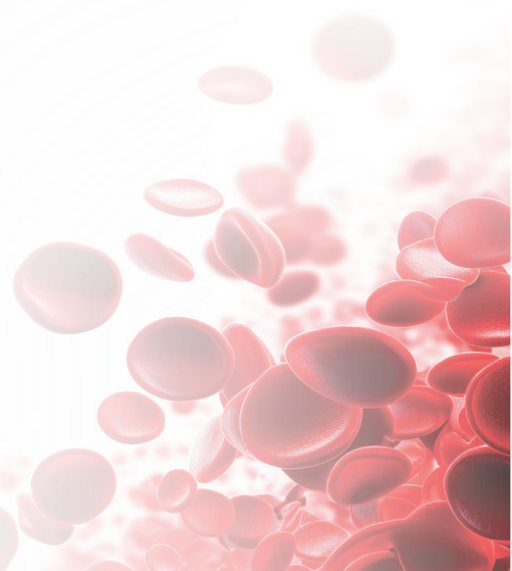
Various size tubes and related colour coded needles are available to fulfill all phlebotomy requirements.



Tube Size:	Volume:
13 x 75	1.8 ml, 2 ml, 2.5 ml, 2.7 ml, 3 ml, 3.5 ml, 4 ml, 4.5 ml, 5 ml.
13 x 100	4 ml, 4.5 ml, 5 ml, 6 ml
16 x 100	8 ml, 8.5 ml, 9.5 ml, 10 ml.



Indicator:	Vacuum Rate Deviation	Coagulation Speed (20°C)	Clot Construction	Haemolysis Time (4-25 °C)	Storage Temperature of Empty Tubes
Coagulant	≤ 5 %	10 -20 Min	30 - 60 min	> 72 hrs	0-45 °C
Seperation Gel W/Coagulant	≤ 5 %	10 -20 Min	30 - 60 min	> 72 hrs	0-45 °C





Serum Gel Tubes

Purpose:

These tubes are used to separate serum from blood cells, thus preventing the biochemical characteristics of the serum for accurate test results.

Additives:

SST Separation Gel and Clot accelerator.

The Separation Gel is made of an inert, high purity material (Silicon) which can withstand temperatures over 90°C.

Recommendations:

- Invert the collected sample 5 to 6 times.
- Allow clotting for 30 min before centrifugation.
- Centrifuge at 1400-2000g for 10 min.

Specifications:

Product No	Volume	Size (mm)	Additive	Material	Box/Case
SU/VP3031	3.0 ml	13 x 75	Clot Accelerator with Gel	PET	100/Box
SU/VP3531	3.5 ml	13 x 75	Clot Accelerator with Gel	PET	100/Box
SU/VP4031	4.0 ml	13 x 75	Clot Accelerator with Gel	PET	100/Box
SU/VP4032	4.0 ml	13 x 100	Clot Accelerator with Gel	PET	100/Box
SU/VP5032	5.0 ml	13 x 100	Clot Accelerator with Gel	PET	100/Box
SU/VP6032	6.0 ml	13 x 100	Clot Accelerator with Gel	PET	100/Box
SU/VP8033	8.0 ml	16 x 100	Clot Accelerator with Gel	PET	100/Box
SU/VP8533	8.5 ml	16 x 100	Clot Accelerator with Gel	PET	100/Box

Vet

Product No	Volume	Size (mm)	Additive	Material	Box/Case
SU/VP5032V	5.0 ml	13 x 100	Clot Accelerator with Gel	PET	100/Box



Plain Serum Tubes

Purpose:

These tubes are used to separate serum testing in Chemistry , Serum Immunology and Blood Banking departments.

Additives:

Red Tops: Contain Clot Accelerator (Thrombin which is a coagulant inducer).

Brown Tops: Contain no additive.

Recommendations:

- Invert the collected sample 5 to 6 times.
- Allow clotting for 30 - 60 min before centrifugation $\leq 1300g$ for 10 min.

Specifications:

Product No	Volume	Size (mm)	Additive	Material	Box/Case
SU/VP3011	3.0 ml	13 x 75	Clot Accelerator	PET	100/Box
SU/VP4011	4.0 ml	13 x 75	Clot Accelerator	PET	100/Box
SU/VP5011	5.0 ml	13 x 75	Clot Accelerator	PET	100/Box
SU/VP5012	5.0 ml	13 x 100	Clot Accelerator	PET	100/Box
SU/VP6012	6.0 ml	13 x 100	Clot Accelerator	PET	100/Box
SU/VP7012	7.0 ml	13 x 100	Clot Accelerator	PET	100/Box
SU/VP8013	8.0 ml	16 x 100	Clot Accelerator	PET	100/Box
SU/VP9013	9.0 ml	16 x 100	Clot Accelerator	PET	100/Box
SU/VP1013	10.0 ml	16 x 100	Clot Accelerator	PET	100/Box
SU/VP3000	3.0 ml	13 x 75	No Additive	PET	100/Box
SU/VP4000	4.0 ml	13 x 75	No Additive	PET	100/Box
SU/VP5000	5.0 ml	13 x 75	No Additive	PET	100/Box
SU/VP5001	5.0 ml	13 x 100	No Additive	PET	100/Box
SU/VP6000	6.0 ml	13 x 100	No Additive	PET	100/Box
SU/VP7000	7.0 ml	13 x 100	No Additive	PET	100/Box
SU/VP8000	8.0 ml	16 x 100	No Additive	PET	100/Box
SU/VP9000	9.0 ml	16 x 100	No Additive	PET	100/Box
SU/VP1000	10.0 ml	16 x 100	No Additive	PET	100/Box

Vet

Product No	Volume	Size (mm)	Additive	Material	Box/Case
SU/VP4011V	4.0 ml	13 x 75	Clot Accelerator	PET	100/Box
SU/VP6012V	6.0 ml	13 x 100	Clot Accelerator	PET	100/Box
SU/VP6012V	10 ml	16 x 100	Clot Accelerator	PET	100/Box



EDTA Tubes

Purpose:

These tubes are used to test whole blood for Haematology and CD4 tests.

K3 EDTA, when used as an anticoagulant, has a minimal impact on Red and White cells (spray coated on the inside of the tube). K2 EDTA gel tubes are used for the examination of EDTA plasma for molecular diagnostics and viral load determinations.

Additives:

K3 EDTA and K2 (2NA also available).

Recommendations:

- Invert the collected sample 8 to 10 times.

Specifications:

Product No	Volume	Size (mm)	Additive	Material	Box/Case
SU/VP2082	2.0 ml	13 x 75	K2 EDTA	PET	100/Box
SU/VP3082	3.0 ml	13 x 75	K2 EDTA	PET	100/Box
SU/VP4082	4.0 ml	13 x 75	K2 EDTA	PET	100/Box
SU/VP5082	5.0 ml	13 x 100	K2 EDTA	PET	100/Box
SU/VP6082	6.0 ml	13 x 100	K2 EDTA	PET	100/Box
SU/VP7082	7.0 ml	13 x 100	K2 EDTA	PET	100/Box
SU/VP1082	10.0 ml	16 x 100	K2 EDTA	PET	100/Box

Product No	Volume	Size (mm)	Additive	Material	Box/Case
SU/VP2081	2.0 ml	13 x 75	K3 EDTA	PET	100/Box
SU/VP3081	3.0 ml	13 x 75	K3 EDTA	PET	100/Box
SU/VP4081	4.0 ml	13 x 75	K3 EDTA	PET	100/Box
SU/VP5081	5.0 ml	13 x 100	K3 EDTA	PET	100/Box
SU/VP6081	6.0 ml	13 x 100	K3 EDTA	PET	100/Box
SU/VP7081	7.0 ml	13 x 100	K3 EDTA	PET	100/Box
SU/VP1081	10.0 ml	13 x 100	K3 EDTA	PET	100/Box

Vet

Product No	Volume	Size (mm)	Additive	Material	Box/Case
SU/VP5082V	5.0 ml	13 x 100	K2 EDTA	PET	100/Box
SU/VP6082V	6.0 ml	13 x 100	K2 EDTA	PET	100/Box
SU/VP6081V	6 ml	13 x 100	K3 EDTA	PET	100/Box



Coagulation Tubes

Purpose:

These tubes are used for blood coagulation testing Sodium Citrate acts as an anticoagulant and has minimal impact on blood cells and platelets. The ratio of anticoagulant to blood volume is 1:9.

Additives:

3.8 % Sodium Citrate.

Recommendations:

- Invert the collected sample 3 to 4 times.
- Tubes can then be centrifuged immediately.
- Centrifuge at 2000 - 2500g for 10 to 15 min.

Specifications:

Product No	Volume	Size (mm)	Additive	Material	Box/Case
SU/VP1871	1.8 ml	13 x 75	Sodium Citrate 1:9 3.2%	PET	100/Box
SU/VP2771	2.7 ml	13 x 75	Sodium Citrate 1:9 3.2%	PET	100/Box
SU/VP3671	3.6 ml	13 x 75	Sodium Citrate 1:9 3.2%	PET	100/Box
SU/VP4571	4.5 ml	13 x 75	Sodium Citrate 1:9 3.2%	PET	100/Box
SU/VP1871D	1.8 ml	13 x 100	Sodium Citrate 1:9 3.2%	PET + PP	100/Box
SU/VP2771D	2.7 ml	13 x 100	Sodium Citrate 1:9 3.2%	PET + PP	100/Box



Plasma Tubes

Purpose:

These tubes are generally used for plasma tests in clinical chemistry. Lithium Heparin prevents the formation of thrombin and platelet aggregation.

Additives:

Lithium Heparin

Recommendations:

- Invert the collected sample 8 - 10 times.
- Tubes can then be centrifuged immediately.
- Centrifuge at $\leq 1300g$ for 10 minutes.

Specifications:

Product No	Volume	Size (mm)	Additive	Material	Box/Case
SU/VP3041	3.0 ml	13 x 75	Lithium Heparin	PET	100/Box
SU/VP4041	4.0 ml	13 x 75	Lithium Heparin	PET	100/Box
SU/VP5042	5.0 ml	13 x 100	Lithium Heparin	PET	100/Box
SU/VP6042	6.0 ml	13 x 100	Lithium Heparin	PET	100/Box
SU/VP3051	3.0 ml	13 x 75	Sodium Heparin	PET	100/Box
SU/VP4051	4.0 ml	13 x 75	Sodium Heparin	PET	100/Box
SU/VP5052	5.0 ml	13 x 100	Sodium Heparin	PET	100/Box
SU/VP6052	6.0 ml	13 x 100	Sodium Heparin	PET	100/Box

Vet

Product No	Volume	Size (mm)	Additive	Material	Box/Case
SU/VP6042V	6.0 ml	13 x 100	Lithium Heparin	PET	100/Box



ESR Tubes

Purpose:

These tubes are used for ESR (Erythrocyte Sedimentation Rate) testing. The ratio of blood to anticoagulant is 4:1. Tubes are available in 1.6ml Glass Tubes for automated systems.

Additives:

3.8% Sodium Citrate.

Recommendations:

- Invert the collected sample 8 to 10 times.

Specifications:

Product No	Volume	Size	Additive	Material	Box/Case
SU/VP16C1	1.6 ml	13 x 75 mm	ESR Sodium Citrate 1:4 3.8%	PET	100/Box
SU/VP24C1	2.4 ml	13 x 75 mm	ESR Sodium Citrate 1:4 3.8%	PET	100/Box
SU/VP32C1	3.2 ml	13 x 75 mm	ESR Sodium Citrate 1:4 3.8%	PET	100/Box
SU/VG16C1	1.6 ml	8 x 120 mm	ESR Sodium Citrate 1:4 3.8% Glass, 2 lines	PET	100/Box
SU/VG16C2	1.6 ml	9 x 120 mm	ESR Sodium Citrate 1:4 3.8% Glass, 2 lines	PET	100/Box
SU/VG16C1	1.6 ml	8 x 120 mm	ESR Sodium Citrate 1:4 3.8% Glass, 1 line	PET	100/Box
SU/VG16C2	1.6 ml	9 x 120 mm	ESR Sodium Citrate 1:4 3.8% Glass, 1 line	PET	100/Box



Glucose Tubes

Purpose:

These tubes are used for Glucose, Lactate and Alcohol testing. Additives stabilize the enzymatic activity and Glucose metabolism in collected samples.

Additives:

Sodium Fluoride EDTA

Recommendations:

- Invert the collected sample 8 to 10 times.
- Centrifuge at $\leq 1300g$ for 10 minutes.

Specifications:

Product No	Volume	Size (mm)	Additive	Material	Box/Case
SU/VP2091	2.0 ml	13 x 75	Sodium Fluoride EDTA	PET	100/Box
SU/VP3091	3.0 ml	13 x 75	Sodium Fluoride EDTA	PET	100/Box
SU/VP4091	4.0 ml	13 x 75	Sodium Fluoride EDTA	PET	100/Box
SU/VP5091	5.0 ml	13 x 75	Sodium Fluoride EDTA	PET	100/Box

Speciality Tubes

Purpose:

These tubes are used to stabilize nuclear DNA in the cells and prohibit the decomposition of cfDNA and normal cell metabolism.

Specifications:

Product No	Volume	Size (mm)	Additive	Material	Box/Case
SU/DNA Free	9.0 ml	13 x 75	Cell Free DNA	Glass	100/Box



Microtainer Tubes

Product No	Volume	Size	Additive		Material	
SU/MP0580	0.5 ml	10 x 45 mm	K2 EDTA		PET	100/Box
SU/MP1080	1.0 ml	10 x 45 mm	K2 EDTA		PET	100/Box
SU/MP0581	0.5 ml	10 x 45 mm	K3 EDTA		PET	100/Box
SU/MP1081	1.0 ml	10 x 45 mm	K3 EDTA		PET	100/Box
SU/MP0540	0.5 ml	10 x 45 mm	Lithium Heparin		PET	100/Box
SU/MP1040	1.0 ml	10 x 45 mm	Lithium Heparin		PET	100/Box
SU/MP0530	0.5 ml	10 x 45 mm	SST Gel		PET	100/Box
SU/MP0500	0.5 ml	10 x 45 mm	No Additive		PET	100/Box
SU/MP1000	1.0 ml	10 x 45 mm	No Additive		PET	100/Box
SU/MP0560	0.5 ml	10 x 45 mm	Lithium Heparin with Gel		PET	100/Box
SU/MP1060	1.0 ml	10 x 45 mm	Lithium Heparin with Gel		PET	100/Box

MICROTUBE (RUBBER STOPPER ONLY TYPE) (mini-collect)

SU/MR0510	0.5 ml	10 x 45 mm	Clot activator		PET	100/Box
SU/MR1010	1.0 ml	10 x 45 mm	Clot activator		PET	100/Box
SU/MR0580	0.5 ml	10 x 45 mm	K2 EDTA		PET	100/Box
SU/MR1080	1.0 ml	10 x 45 mm	K2 EDTA		PET	100/Box
SU/MR0581	0.5 ml	10 x 45 mm	K3 EDTA		PET	100/Box
SU/MR1081	1.0 ml	10 x 45 mm	K3 EDTA		PET	100/Box
SU/MR0540	0.5 ml	10 x 45 mm	Lithium Heparin		PET	100/Box
SU/MR1040	1.0 ml	10 x 45 mm	Lithium Heparin		PET	100/Box
SU/MR0500	0.5 ml	10 x 45 mm	No Additive		PET	100/Box
SU/MR1000	1.0 ml	10 x 45 mm	No Additive		PET	100/Box
SU/MR0530	0.5 ml	10 x 45 mm	SST (GEL)		PET	100/Box



Specifications: Blood Collection Needles

Product No	Description	Colour	Box/Case
SU/G2215	22G Needle 1.5" Black		100/Box
SU/G2115	21G Needle 1.5" Green		100/Box
SU/G2015	20G Needle 1.5" Yellow		100/Box
SU/G1810	18G Needle 1" Short		100/Box
SU/G1815	18G Needle 1.5" Pink short		100/Box
SU/SLB20	Luer Adaptor 20G (Sterile, Single -Use, Male)		100/Box
SU/G2110S	21G Saftey Needle (Safety Shield for Needle Retraction 1")		48/Box
SU/G2115S	21G Saftey Needle (Safety Shield for Needle Retraction 1.5")		48/Box
SU/G2100S	22G Saftey Needle (Safety Shield for Needle Retraction 1")		48/Box
SU/G2215S	22G Saftey Needle (Safety Shield for Needle Retraction 1.5")		48/Box
SU/BG2134S	21G Safety Butterfly with Luer adaptor (0.8 mm, 19 mm)		50/Box
SU/BG2334S	23G Safety Butterfly with Luer adaptor (0.6 mm, 19 mm)		50/Box
SU/BG2534S	25G Safety Butterfly with Luer adaptor (0.5 mm,19 mm)		50/Box

Specifications: Lancets

Product No	Description	Box/Case
SU/LG2118	21G Lancet for Fingertip or heel collection 21G (0.8mm) - (1.8mm)	100/Box
SU/LG2122	21G Lancet for Finger tip or heel collection 21G (0.8mm) - (2.2mm)	100/Box
SU/LG2128	21G Lancet for Finger tip or heel collection 21G (0.8mm) -(2.8mm)	100/Box
SU/LG2318	23G Lancet for Finger tip or heel collection (0.6mm) -(1.8mm)	100/Box
SU/LG2618	26G Lancet for Finger tip or heel collection	100/Box
SU/LG2818	28G Lancet for Finger tip or heel collection	100/Box
SU/LG3016	30G Lancet for Finger tip or heel collection	100/Box



Blood Collection Accessories

Purpose:

Sharps Containers:

- Design ensures safe and convenient disposal of medical sharps such as Needles and Blades.
- Lockable upper cap prevents exposure of collected contents when ready to be discarded.
- Made of impact resistance Polypropylene.
- Products can be incinerated without producing toxins.
- Various models and sizes available.

Holders:

- Holders fit perfectly with Phlebotomy Needles and Blood Collection Tubes.
- Reusable.

Product No	Description	Colour	Box/Case
SU/H0001WC	Holder	Clear	200/Box
AV/14264	Polystyrene box and lid only	White	Each
SU/ST010	Sharps container T series (1L)	Yellow	Each
SU/DMS-R07	Sharps container (0,7L)	Yellow	Each
SU/SF05A	Sharps container F series (5L)	Yellow	Each
SU/ST5	Sharps container T serie (5L) with handle	Yellow	Each
SU/SF10	Sharps container F series (10L)	Red	Each
SU/SF23	Sharps container F series (23L)	Yellow	Each
SU/HP7001	Nasal Swabs, nylon flocked	White	100/Box

Platelet-Rich Plasma Tubes

Product No	Description	Colour	Box/Case
SU/0628-10-2-1G	2 PRP Tube with 1 Re-suspension Tube, 10ml	Blue	Each





The Scientific Group

For more product information, please contact your nearest representative:

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