



Tactful • Unique • Dynamic

Product Information

PRE-ANALYTICAL SYSTEM

Product Catalog, Ver 8.73



www.tud.my

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Introduction

Founded in 2008, TUD SDN BHD is a premier manufacturer of high-precision vacuum blood collection systems based in Malaysia. Renowned for an uncompromising commitment to quality and reliability, the company operates under internationally recognized certifications and comprehensive validation protocols that reflect strict adherence to the highest industry standards.

TUD solutions are trusted by healthcare professionals and clinical institutions worldwide, maintaining a robust presence in both local and international diagnostic networks. Dedicated to precision engineering and continuous innovation, TUD strives to enhance patient care and laboratory efficiency through advanced manufacturing processes and rigorous quality controls.

With a global footprint spanning multiple continents, TUD exemplifies Malaysian excellence in medical device manufacturing, ensuring that every tube delivers performance critical for diagnostic accuracy

TUD Brand Positioning

TUD is synonymous with: Tactful, Unique & Dynamic



Our Core Brand Values

Trustworthy

Built on a foundation of transparency, TUD ensures ethical practices across every facet of its operations. Hospitals and laboratories rely on TUD for consistent, high-integrity products that meet global safety benchmarks.

Innovation

TUD constantly enhances its product portfolio through R&D, keeping pace with the latest advancements in medical technology and specialized manufacturing techniques to optimize laboratory workflows.

Sustainability and Responsibility

TUD is committed to environmentally responsible manufacturing and supports the health of both people and the planet. Our practices align with worldwide ESG (Environmental, Social, and Governance) criteria, ensuring we meet the ethical standards of modern global procurement.

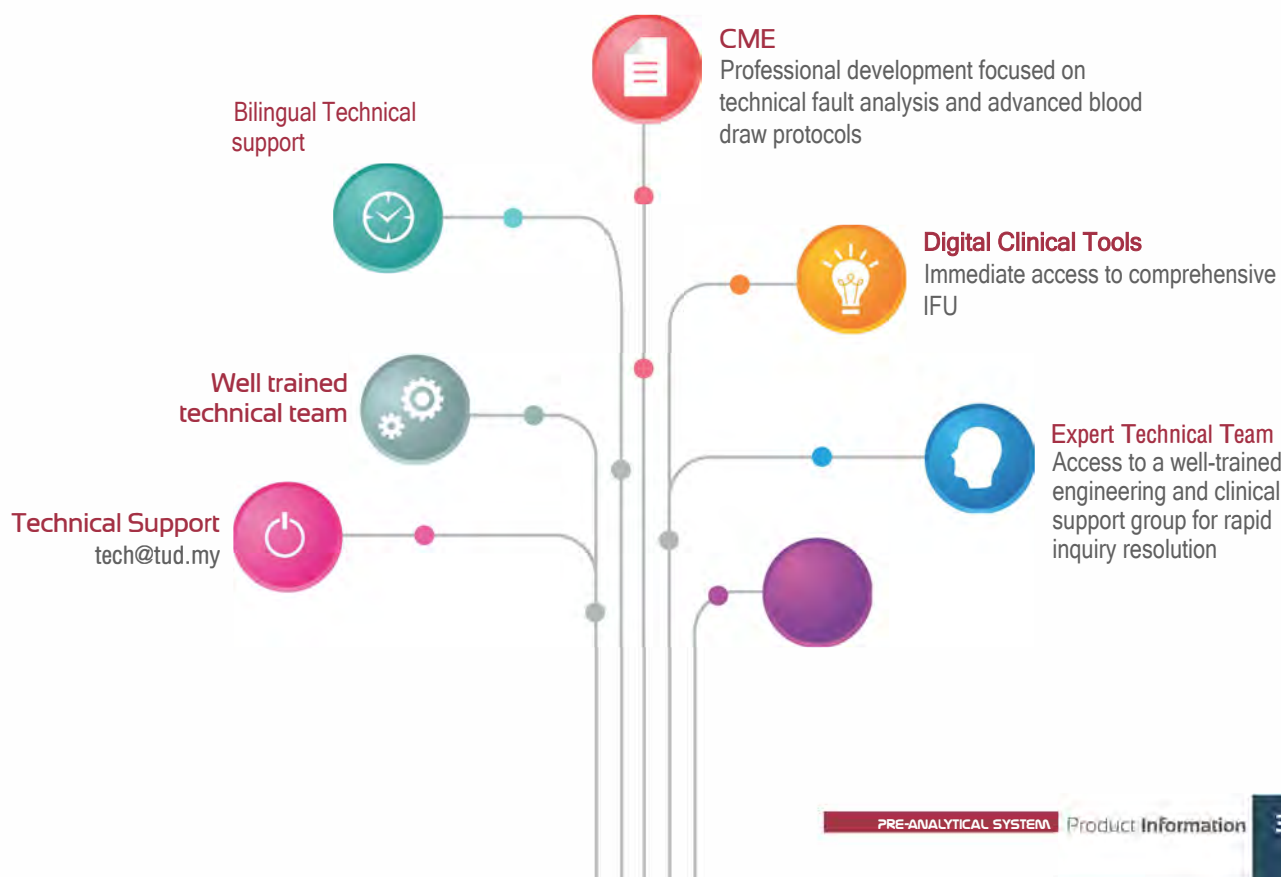
Training & Clinical Support

TUD provides comprehensive clinical enablement programs designed to ensure the highest standards of specimen integrity. Our support infrastructure aligns with international material guidelines and quality specifications, verified by global certification bodies to guarantee diagnostic reliability.

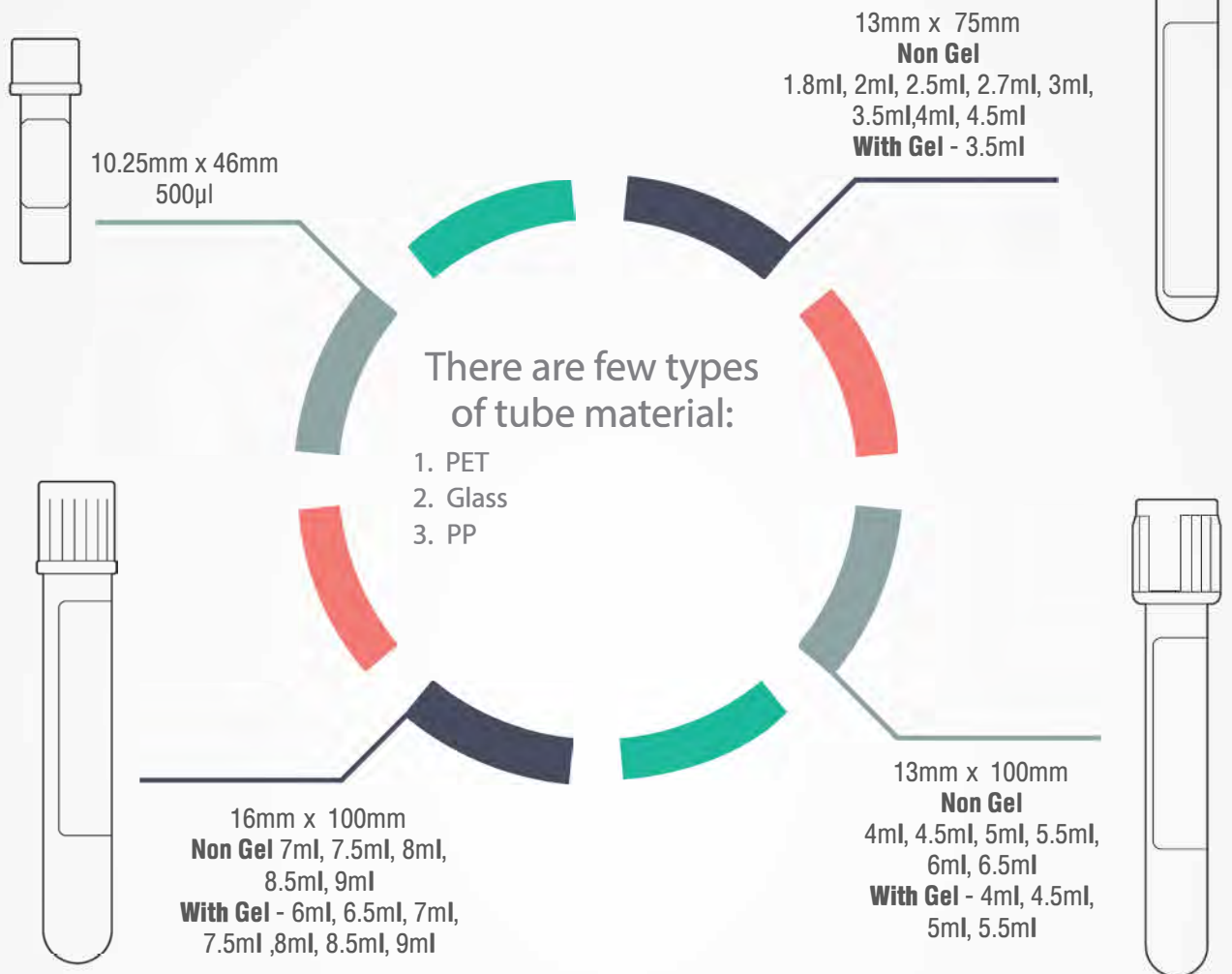
- Stringent Quality Control: Rigorous safety and quality oversight for every production batch.
- Standardized Reference Materials: Strategic use of international reference materials by national control laboratories and designated manufacturers.
- Contamination Mitigation: Specialized training modules to help healthcare professionals identify and prevent pre-analytical errors that cause sample contamination.



We offer users a variety of high quality training programmes to continually update healthcare workers in the use of our blood collection tubes although it is simple and easy for use, but it is important for all healthcare workers to aware for all the process and step which might cause the samples contaminated.



Tubes Information



All TUD blood collection tubes incorporate the latex-free closure; inner stopper and outer protective cap, it is easy to remove and recap by the following procedures :



Instructions for removal of TUD Rubber Stopper

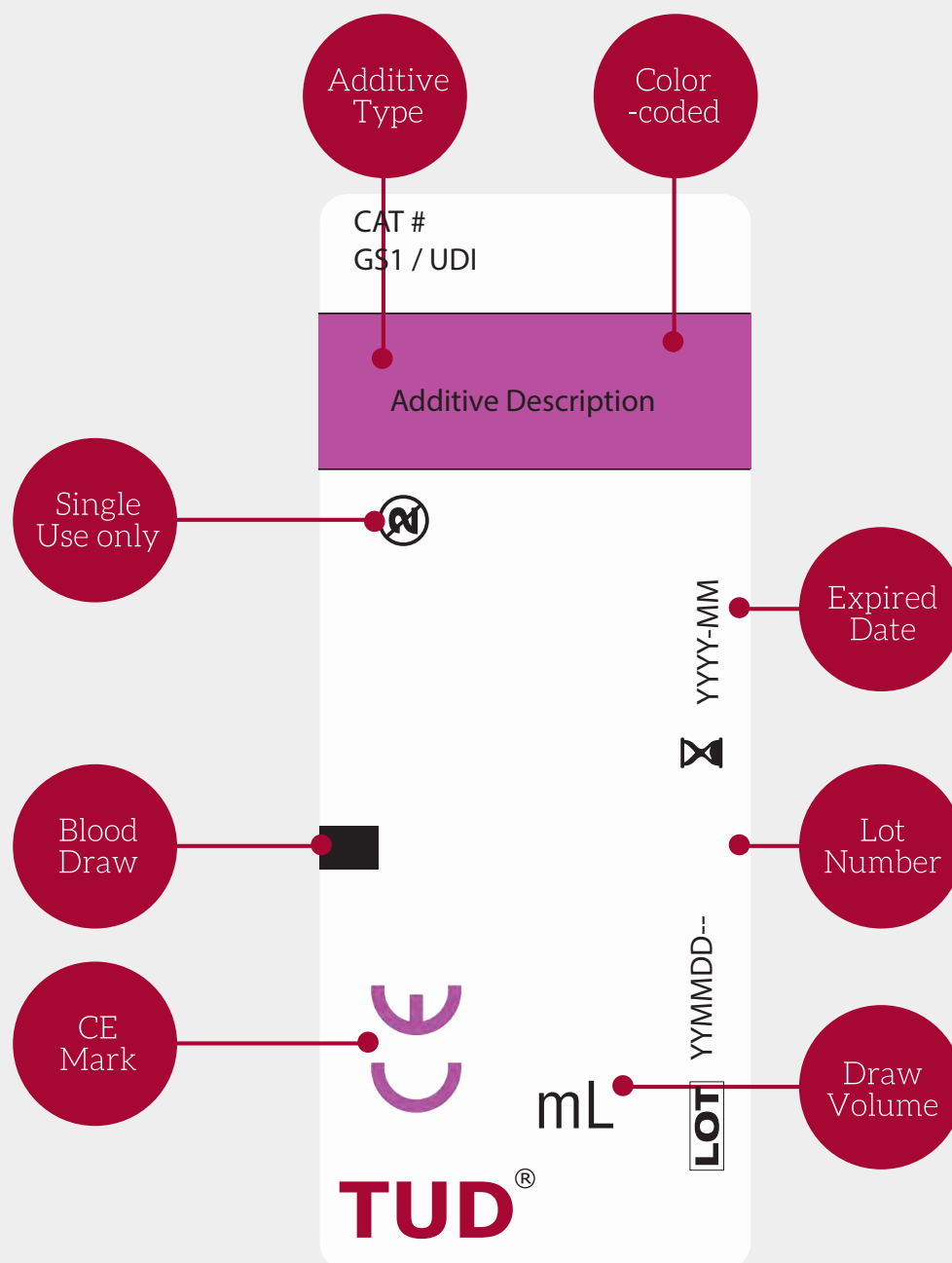
Grasp the blood tube with one hand, placing the thumb under the closure. With the other hand, twist the closure while simultaneously pushing up with the thumb of the other hand, only until the tube stopper is loosened.

Move thumb away before lifting closure. Caution: Do not use thumb to push closure off tube. If the tube contains blood, an exposure hazard exists.

Lift closure off tube. In the unlikely event of the plastic shield separating from the rubber stopper, do not reassemble closure. Carefully remove rubber stopper from tube.

Tubes Labels

Precision Labeling & Global Partnership



The TUD labeling system is engineered for 100% traceability and zero clinical ambiguity. Each high-clarity label optimizes laboratory efficiency and streamlines the specimen collection process.

Key Identification Features:

- **Additive Specification:** International color-coding for immediate identification.
- **Digital Integration:** GS1/UDI data fields for seamless inventory management.
- **Compliance Markers:** Prominent CE Mark and safety iconography meeting global standards.
- **Quality Control:** Precise Lot Number and Expiry (YYYY-MM) alignment for audit verification.
- **Fill Integrity:** Clear "Draw Volume" indicators to ensure accurate blood-to-additive ratios.

Global OEM & Private Labeling

We provides professional OEM and Private Labeling solutions, including multi-language support tailored to international market requirements. Our flexible manufacturing ensures absolute clinical accuracy and brand alignment for our global diagnostic partners.

NaF EDTA Tubes



TUD NaF EDTA tubes will stop enzymatic activity at the glycolytic pathway as glucose values in unpreserved blood samples decrease quickly after collection as glucose is metabolized by the blood cells. The marker HbA1c can be determined from the same tube and no additional tube samples need to be taken.

GS1/ UDI#	CAT#	Additive	1ml samples contain	Tube Material	Inversion	Size (mm)	Draw (ml)	Inner/ Carton Pack
9555984601732	137510014	Sodium Fluoride +EDTA	1.5mg/3mg	Pet	8-10	13*75	1	100 / 1000
9555984601749	137520014	Sodium Fluoride +EDTA	1.5mg/3mg	Pet	8-10	13*75	2	100 / 1000
9555984601756	137530014	Sodium Fluoride +EDTA	1.5mg/3mg	Pet	8-10	13*75	3	100 / 1000
9555984601763	137540014	Sodium Fluoride +EDTA	1.5mg/3mg	Pet	8-10	13*75	4	100 / 1000
9555984601770	131050014	Sodium Fluoride +EDTA	1.5mg/3mg	Pet	8-10	13*100	5	100 / 1000
9555984601787	131060014	Sodium Fluoride +EDTA	1.5mg/3mg	Pet	8-10	13*100	6	100 / 1000
9555984601794	161070014	Sodium Fluoride +EDTA	1.5mg/3mg	Pet	8-10	16*100	7	50 / 600
9555984601800	161080014	Sodium Fluoride +EDTA	1.5mg/3mg	Pet	8-10	16*100	8	50 / 600
9555984601817	161090014	Sodium Fluoride +EDTA	1.5mg/3mg	Pet	8-10	16*100	9	50 / 600
9555984601725	104605014	Sodium Fluoride +EDTA	1.5mg/3mg	PP	8-10	10.25*46	500µl	100 / 1000

Reaction

As soon as blood cells begin to metabolize glucose, the amount of glucose in unpreserved blood samples drops rapidly. The ingredients in the Fluoride/EDTA tubes inhibit the glycolytic pathway's enzymatic activity.

Available Form

Sodium Fluoride + EDTA K2

Principal assay

Glucose Testing

The marker HbA1c can be found from the same tube, saving another tube sample, which is one benefit of the Fluoride/EDTA tube over the Fluoride Oxalate tube.

Handling

Mix thoroughly by inversion. Avoid vigorous mixing as fluoride oxalate tubes are more susceptible to haemolysis.

Centrifuge Instructions

< 1300g for 10 minutes at 25°C Room Temperature

Closure color

Grey

EDTA Tubes



TUD EDTA tubes work as an anticoagulant as it forms complexes with metal ions such as calcium, therefore inhibiting the coagulation cascade. Anticoagulation with EDTA is irreversible.

GS1 / UDI #	CAT#	Additive	1ml samples contain	Tube Material	Inversion	Size (mm)	Draw (ml)	Inner/ Carton Pack
9555984601404	137510003	K2 EDTA	1.85mg	Pet	8-10	13*75	1	100 / 1000
9555984601510	137510008	K3 EDTA	2.02mg					
9555984601411	137520003	K2 EDTA	1.85mg	Pet	8-10	13*75	2	100 / 1000
9555984601527	137520008	K3 EDTA	2.02mg					
9555984601428	137530003	K2 EDTA	1.85mg	Pet	8-10	13*75	3	100 / 1000
9555984601534	137530008	K3 EDTA	2.02mg					
9555984601435	137540003	K2 EDTA	1.85mg	Pet	8-10	13*75	4	100 / 1000
9555984601541	137540008	K3 EDTA	2.02mg					
9555984601442	131050003	K2 EDTA	1.85mg	Pet	8-10	13*100	5	100 / 1000
9555984601558	131050008	K3 EDTA	2.02mg					
9555984601459	131060003	K2 EDTA	1.85mg	Pet	8-10	13*100	6	100 / 1000
9555984601565	131060008	K3 EDTA	2.02mg					
9555984601466	161070003	K2 EDTA	1.85mg	Pet	8-10	16*100	7	50 / 600
9555984601572	161070008	K3 EDTA	2.02mg					
9555984601473	161080003	K2 EDTA	1.85mg	Pet	8-10	16*100	8	50 / 600
9555984601589	161080008	K3 EDTA	2.02mg					
9555984601480	161090003	K2 EDTA	1.85mg	Pet	8-10	16*100	9	50 / 600
9555984601596	161090008	K3 EDTA	2.02mg					
9555984601398	104605003	K2 EDTA	1.85mg	PP	8-10	10.25*46	500µl	100 / 1000
9555984601503	104605008	K3 EDTA	2.02mg					

Reaction

Acts along the coagulation pathway by removing calcium from the blood.

No Different function for both additive

Available Form

K2 EDTA /
K3 EDTA

Principal assay

For Hematology,
Blood Type, Verification,
Cross Matching Test.
Determinations: FBC (CBC),
FBP, HbA1C, CD4/CD8, IPTH,
PCR (HIV), Viral Load For HIV,
Anticardiolipin Antibody,
Antiphospholipid Antibody,
F cell, Simplified
Acid Elution test

Handling

Mix thoroughly by inversion. Note that spray dried EDTA is least soluble of all additives. In adequate mixing may lead to platlet clumps, micro-clots.

Centrifuge Instructions

N / A

Closure color

Lavender

Na Citrate Tubes (0.109M)(3.2%)/ (0.129M)(3.8%)

Trisodium citrate is used as an anticoagulant for coagulation investigation. It works as an anticoagulant as it forms complexes with metal ions such as calcium inhibiting the coagulation cascade. Anticoagulation with trisodium citrate is reversible.



GS1 / UDI #	CAT#	Additive	1ml samples contain	Tube Materials	Inversion	Size (mm)	Draw (ml)	Inner/ Carton Pack
9555984600001	104605001	Na Citrate (3.2%)	0.2mg	PET	3-4	10.25*46	500µl	100 / 1000
9555984600162	104605019	Na Citrate (3.8%)	0.3mg					
9555984600018	137509001	Na Citrate (3.2%)	0.2mg	PET	3-4	13*75	0.9	100 / 1000
9555984600179	137509019	Na Citrate (3.8%)	0.3mg					
9555984600025	137510001	Na Citrate (3.2%)	0.2mg	PET	3-4	13*75	1	100 / 1000
9555984600186	137510019	Na Citrate (3.8%)	0.3mg					
9555984600032	137518001	Na Citrate (3.2%)	0.2mg	PET	3-4	13*75	1.8	100 / 1000
9555984600193	137518019	Na Citrate (3.8%)	0.3mg					
9555984600049	137520001	Na Citrate (3.2%)	0.2mg	PET	3-4	13*75	2	100 / 1000
9555984600209	137520019	Na Citrate (3.8%)	0.3mg					
9555984600056	137527001	Na Citrate (3.2%)	0.2mg	PET	3-4	13*75	2.7	100 / 1000
9555984600216	137527019	Na Citrate (3.8%)	0.3mg					
9555984600063	137530001	Na Citrate (3.2%)	0.2mg	PET	3-4	13*75	3	100 / 1000
9555984600223	137530019	Na Citrate (3.8%)	0.3mg					

Centrifuge conditions :

Platelet rich plasma :
150-200g for 5 minutes at 18-25°C

Platelet poor plasma :
2000-2500g for 10-15 minutes at 18-25°C

Platelet free plasma :
>3000g for 15-30 minutes at 18-25°C

Reaction

Removing Calcium by forming a complex with the calcium. Disrupting the clotting mechanism. It is reversible with addition of calcium.

Available Form

Na Citrate (3.2%) /
Na Citrate (3.8%)

Principal assay

For Blood Coagulation Test, PT/aPTT Substitution Test, Factor VIII, Factor IX, D-Dimer, Fibrinogen, Thrombophilia Profile

Handling

Need a very gentle inversion.

Centrifuge Instructions

Plastic - 2000g-2500g for 10~15 minutes at 25°C Room Temperature.

Closure color

Light Blue

ESR 4NC TUBES



TUD ESR tubes are used to collect and transport venous blood for sedimentation rate tests. ESR measurements refer to the Westergren method.

GS1 / UDI #	CAT#	Additive	1ml samples contain	Tube Materials	Inversion	Size (mm)	Draw Volume (ml)	Inner/ Carton Pack
9555984600322	137516007	Na Citrate (0.109)	0.032g/ml	PET	8-10	13*75	1.6	100 / 1000
9555984600469	137516020	Na Citrate (0.129)	0.038g/ml	PET	8-10	13*75	1.6	100 / 1000
9555984600339	137520007	Na Citrate (0.109)	0.032g/ml	PET	8-10	13*75	2	100 / 1000
9555984600476	137520020	Na Citrate (0.129)	0.038g/ml	PET	8-10	13*75	2	100 / 1000
9555984600346	137524007	Na Citrate (0.109)	0.032g/ml	PET	8-10	13*75	2.4	100 / 1000
9555984600483	137524020	Na Citrate (0.129)	0.038g/ml	PET	8-10	13*75	2.4	100 / 1000
9555984600353	137528007	Na Citrate (0.109)	0.032g/ml	PET	8-10	13*75	2.8	100 / 1000
9555984600490	137528020	Na Citrate (0.129)	0.038g/ml	PET	8-10	13*75	2.8	100 / 1000
9555984600377	137532007	Na Citrate (0.109)	0.032g/ml	PET	8-10	13*75	3.2	100 / 1000
9555984600513	137532020	Na Citrate (0.129)	0.038g/ml	PET	8-10	13*75	3.2	100 / 1000
9555984600384	137536007	Na Citrate (0.109)	0.032g/ml	PET	8-10	13*75	3.6	100 / 1000
9555984600520	137536020	Na Citrate (0.129)	0.038g/ml	PET	8-10	13*75	3.6	100 / 1000
9555984600391	137540007	Na Citrate (0.109)	0.032g/ml	PET	8-10	13*75	4	100 / 1000
9555984600537	137540020	Na Citrate (0.129)	0.038g/ml	PET	8-10	13*75	4	100 / 1000
9555984600407	131050007	Na Citrate (0.109)	0.032g/ml	PET	8-10	13*100	5	100 / 1000
9555984600544	131050020	Na Citrate (0.129)	0.038g/ml	PET	8-10	13*100	5	100 / 1000
9555984600414	131060007	Na Citrate (0.109)	0.032g/ml	PET	8-10	13*100	6	100 / 1000
9555984600551	131060020	Na Citrate (0.129)	0.038g/ml	PET	8-10	13*100	6	100 / 1000
9555984600421	161070007	Na Citrate (0.109)	0.032g/ml	PET	8-10	16*100	7	50 / 600
9555984600568	161070020	Na Citrate (0.129)	0.038g/ml	PET	8-10	16*100	7	50 / 600
9555984600438	161080007	Na Citrate (0.109)	0.032g/ml	PET	8-10	16*100	8	50 / 600
9555984600575	161080020	Na Citrate (0.129)	0.038g/ml	PET	8-10	16*100	8	50 / 600
9555984600445	161090007	Na Citrate (0.109)	0.032g/ml	PET	8-10	16*100	9	50 / 600
9555984600582	161090020	Na Citrate (0.129)	0.038g/ml	PET	8-10	16*100	9	50 / 600

Reaction

To measure the Erythrocyte Sedimentation Rate (ESR).

Available Form

Na Citrate (0.109M) /
Na Citrate (0.129M)

Principal assay

Erythrocyte Sedimentation Rate (ESR) is measured in mm/hr using the Modified Westergren Method.

Example :

$$ESR(mm/hr) \leq \frac{\text{Age (in years)} + 10 (\text{if female})}{2}$$

Handling

Need a very gently inversion 8 – 10 times.

Centrifuge Instructions

N / A

Closure color

Black

Lithium Heparin Tubes

Sodium Heparin Tubes



Heparin acts as an anticoagulant as it develops an anti thrombin complex and available in sodium heparin or lithium heparin, however for clinical chemistry, lithium heparin is generally preferred over sodium heparin.

GS1 / UDI #	CAT#	Additive	1ml samples contain	Inversion	Tube Material	Size (mm)	Draw (ml)	Inner/ Carton Pack
9555984600964	137510004	Lithium Heparin	20 IU	8-10	PET	13*75	1	100 / 1000
9555984601077	137510015	Sodium Heparin						
9555984600971	137520004	Lithium Heparin	20 IU	8-10	PET	13*75	2	100 / 1000
9555984601084	137520015	Sodium Heparin						
9555984600988	137530004	Lithium Heparin	20 IU	8-10	PET	13*75	3	100 / 1000
9555984601091	137530015	Sodium Heparin						
9555984600995	137540004	Lithium Heparin	20 IU	8-10	PET	13*75	4	100 / 1000
9555984601107	137540015	Sodium Heparin						
9555984601008	131050004	Lithium Heparin	20 IU	8-10	PET	13*100	5	100 / 1000
9555984601114	131050015	Sodium Heparin						
9555984601015	131060004	Lithium Heparin	20 IU	8-10	PET	13*100	6	100 / 1000
9555984601121	131060015	Sodium Heparin						
9555984601022	161070004	Lithium Heparin	20 IU	8-10	PET	16*100	7	50 / 600
9555984601138	161070015	Sodium Heparin						
9555984601039	161080004	Lithium Heparin	20 IU	8-10	PET	16*100	8	50 / 600
9555984601145	161080015	Sodium Heparin						
9555984601046	161090004	Lithium Heparin	20 IU	8-10	PET	16*100	9	50 / 600
9555984601152	161090015	Sodium Heparin						
9555984600957	104605004	Lithium Heparin	20 IU	8-10	PP	10.25*46	0.5ml	100 / 1000

Reaction

Acts along the coagulation pathway by removing calcium from the blood.

Principal assay

Determination In Plasma For Biochemical Testing. Determinations for STAT determinations in Chemistry test **[Liver Function Test (LFT), Fasting Serum Lipid (FSL), Renal Profile (Creatinine, Urea & electrolytes; Na+, K+, Cl-) Cardiac Enzymes(CK, LDH, AST), Creatine Kinase-MB, Uric Acid, Calcium, Inorganic Phosphate, Magnesium, Amylase, Gamma GT, C-reactiveProtein, Cholinesterase, Iron, UIBC, Immunoglobulins IgG, IgM, IgA, Complement C3/C4, Ammonia, Lactate] HLA-typing.

Available Form

Lithium Heparin.
Sodium Heparin

Centrifuge Instructions

< 1300g for 10 minutes at 25°C Room Temperature

Closure color

Green

Heparin With Gel Tubes

Heparin tubes with separating gel for clinical chemistry used to separate the plasma and the cells when centrifugation preventing the contamination of the plasma from the separated cellular components.

GS1 / UDI #	CAT#	Additive	1ml samples contain	Inversion	Tube Material	Size (mm)	Draw Volume (ml)	Inner/ Carton Pack
9555984601213	131040012	Lithium Heparin with Gel	20 IU	8-10	PET	13*100	4	100 / 1000
9555984601329	131040022	Sodium Heparin with Gel						
9555984607833	131045012	Lithium Heparin with Gel	20 IU	8-10	PET	13*100	4.5	100 / 1000
9555984607840	131045022	Sodium Heparin with Gel						
9555984601220	131050012	Lithium Heparin with Gel	20 IU	8-10	PET	13*100	5	100 / 1000
9555984601336	131050022	Sodium Heparin with Gel						
9555984601237	161060012	Lithium Heparin with Gel	20 IU	8-10	PET	16*100	6	50 / 600
9555984601343	161060022	Sodium Heparin with Gel						
9555984601244	161070012	Lithium Heparin with Gel	20 IU	8-10	PET	16*100	7	50 / 600
9555984601350	161070022	Sodium Heparin with Gel						
9555984601251	161080012	Lithium Heparin with Gel	20 IU	8-10	PET	16*100	8	50 / 600
9555984601367	161080022	Sodium Heparin with Gel						
9555984608151	1610850012	Lithium Heparin with Gel	20 IU	8-10	PET	16*100	8.5	50 / 600
9555984608168	1610850022	Sodium Heparin with Gel						
9555984601176	104605012	Lithium Heparin with Gel	20 IU	8-10	PP	10.25*46	500µl	100 / 1000



Reaction

Acts mainly by blocking thrombin reaction thus prevents conversion of fibrinogen into fibrin, during centrifuge the gel forms a barrier providing a stable barrier separating the plasma from cells.

Available Form

Lithium Heparin with Gel / Sodium Heparin with Gel

Principal assay

STAT chemistry tests, these include tests for the evaluation of endocrine and metabolic disorders, therapeutic drug monitoring and toxicology, protein electrophoresis, lipid panels, as well as those tests commonly called routine such as hepatic function tests, electrolytes and markers of cardiac damage.

Handling

Mix thoroughly by inversion 8-10 times.

Centrifuge Instructions

1300g- 2000g for 10 minutes at 25°C Room Temperature.

Closure color

Green

Plain Tubes (No additive) / Plain with Clot Activator

TUD Plain with Clot Activator or Plain tubes (No additive) to obtain serum samples after centrifugation.

GS1 / UDI #	CAT1#	Additive	Clotting Period		Tube Material ^s	Inversion _n	Size (mm)	Draw (ml)	Inner/ Carton Pack
9555984600728	137510006	Silica (Clot Activator)	30	minutes	PET	8-10 5	13*75	1	100 / 1000
9555984601954	137510023	None	60						
9555984600735	137520006	Silica (Clot Activator)	30	minutes	PET	8-10 5	13*75	2	100 / 1000
9555984601961	137520023	None	60						
9555984600742	137530006	Silica (Clot Activator)	30	minutes	PET	8-10 5	13*75	3	100 / 1000
9555984601978	137530023	None	60						
9555984600759	137540006	Silica (Clot Activator)	30	minutes	PET	8-10 5	13*75	4	100 / 1000
9555984601985	137540023	None	60						
9555984600766	131050006	Silica (Clot Activator)	30	minutes	PET	8-10 5	13*100	5	100 / 1000
9555984601992	131050023	None	60						
9555984600773	131060006	Silica (Clot Activator)	30	minutes	PET	8-10 5	13*100	6	100 / 1000
9555984602005	131060023	None	60						
9555984600780	161070006	Silica (Clot Activator)	30	minutes	PET	8-10 5	16*100	7	50 / 600
9555984602012	161070023	None	60						
9555984600797	161080006	Silica (Clot Activator)	30	minutes	PET	8-10 5	16*100	8	50 / 600
9555984602029	161080023	None	60						
9555984600803	161090006	Silica (Clot Activator)	30	minutes	PET	8-10 5	16*100	9	50 / 600
9555984602036	161090023	None	60						
9555984600810	161010006	Silica (Clot Activator)	30	minutes	PET	8-10 5	16*100	10	50 / 600
9555984602043	161010023	None	60	minutes				10	50 / 600
9555984601947	104605023	None	30	minutes	PP	5	10.25*46	500µl	100 / 1000

Reaction

Clot activator will decrease the time of clotting the blood will clot faster.

Available Form

Silica (Clot Activator)

Principal assay

Determination in Serum For Biochemical, Immunology, Serology/Virology, and other serum investigations.

Handling

Mix thoroughly by inversion 8-10 times. Let the blood clot properly before proceed another step

Centrifuge Instructions

3800 - 4000 RPM for 10 minutes at room temperature

Closure color

Red



Gel & Clot Tubes

TUD Gel & Clot Tubes for separates the serum and the blood clot after centrifugation preventing the contamination of the serum from the separated cellular components.

GS1 / UDI #	CAT#	Additive	Clotting Period	Tube Material	Inversion	Size (mm)	Draw Volume (ml)	Inner/ Carton Pack
9555984600834	137510005	Gel & Silica	30 minutes	PET	8-10	13*75	1	100 / 1000
9555984600841	137520005	Gel & Silica	30 minutes	PET	8-10	13*75	2	100 / 1000
9555984600858	137530005	Gel & Silica	30 minutes	PET	8-10	13*75	3	100 / 1000
9555984600865	137535005	Gel & Silica	30 minutes	PET	8-10	13*75	3.5	100 / 1000
9555984600872	131040005	Gel & Silica	30 minutes	PET	8-10	13*100	4	100 / 1000
9555984600889	131050005	Gel & Silica	30 minutes	PET	8-10	13*100	5	100 / 1000
9555984604023	131055005	Gel & Silica	30 minutes	PET	8-10	13*100	5.5	100 / 1000
9555984600896	161060005	Gel & Silica	30 minutes	PET	8-10	16*100	6	50 / 600
9555984600902	161070005	Gel & Silica	30 minutes	PET	8-10	16*100	7	50 / 600
9555984600919	161080005	Gel & Silica	30 minutes	PET	8-10	16*100	8	50 / 600
9555984600926	161085005	Gel & Silica	30 minutes	PET	8-10	16*100	8.5	50 / 600
9555984600827	104605005	Gel	30 minutes	PP	8-10	10.25*46	500µl	100 / 1000

Reaction

Clot activator will decrease the time of clotting the blood and the gel will act as a separator between blood and serum.

Centrifuge Instructions

1800 - 2000g or
3800-4000rpm
for minimum of
10 minutes

Principal assay

Determination in Serum For Biochemical, Immunology, Serology/Virology, and other serum investigations.
Determinations for Routine determinations in Chemistry test, Serum Osmolality, Lithium, Ceruloplasmin, Immunology test; TSH, T4, FT4, FT3, FSH, LH, Prolactin, Estradiol, Cortisol, Progesterone, Testosterone, Folate, Vitamin B-12, Ferritin, Tumor markers (AFP, PSA, CEA, CA-125, CA 19-9, CA 15-3, BHCG,..)
Serology/Virology Tests; WWF, RA factor, ASOT, VDRL, Anti-HIV, HBs Ag, Anti HCV, Rubella, Toxoplasma, CMV, HSV I, HSV II, Mycoplasma, Leptospira, Dengue, HIV, Hep B, Hep C, ASMA, AMA, ANA, DsDNA, Monospot, P-ANCA, C-ANCA, and etc

Available Form

Gel & Silica

Handling

Mix thoroughly by inversion 6-8 times. Let the blood clot properly before proceed onto another step.

Closure color

Gold Yellow

Product Compliances



Regulatory Compliance & Global Standards

TUD Blood Collection Tubes are (non-Annex II) In Vitro Diagnostic Medical Devices, fully complying with the European In Vitro Diagnostic Regulation 2017/746.

All products are designed and manufactured in accordance with international and European standards, including:

ISO 6710 & EN14820: Specification for blood collection tubes.

EN 980: Symbols for medical device labeling.

Quality Assurance & Stability

Product shelf life is determined by rigorous stability testing. All expiry dates are clearly printed on unit labels and remain valid until the end of the specified month.

Corporate Governance & ESG

TUD is certified under ISO 13485:2016 and carries EC certification. In alignment with global ESG (Environmental, Social, and Governance) criteria, our operations are further certified under ISO 45001 and ISO 14001. All products are proudly made in MALAYSIA.



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