



**BLOOD**  
COLLECTION TUBE

**FSC**



**CE**



# About Us

## “ Pioneering innovation in blood collection tubes “

*Dedicated to transforming healthcare through advanced solutions that address critical industry challenges. Focusing on enhancing patient safety and improving healthcare outcomes, Thequa offers revolutionary products designed to meet the highest standards of quality and efficacy.*

### History

*Thequa for Medical Industries was established in 2018 to manufacture laboratory consumables, beginning with blood collection tubes. The facility is located in ELSADAT industrial city, Egypt.*

*Technological expertise and know-how were transferred from Switzerland, molds were manufactured in Germany, and assembly machines were sourced from Korea. The company was founded by three phlebotomists with PhD backgrounds to fill the gap in the blood collection tube industry.*

### Permits and certifications

*THEQUA received a work permit in Egypt in 2019 and built a clean room by early 2020. Machines from South Korea and molds from Germany ensure top-notch quality.*

*In 2020, Thequa received the CE mark and became the first IVD company to comply with the new European IVDR regulation. We were listed in the European EUDAMED database ahead of major blood collection tube manufacturers like BD and Greiner.*

*<https://ec.europa.eu/tools/eudamed/#/screen/search-eo/48e5cca2-865a-4fbb-b0a9-f5b0fca37e16>*

*We also obtained ISO 13485, FDA, and Free Sale FSC certificates from the Netherlands, a license and GMP from the Egyptian Ministry of Health, and approval from the Tanzanian Ministry of Health.*

## Our Mission

*our mission is to revolutionize the medical industry by providing cutting-edge solutions that improve the efficiency and safety of medical procedures. We are committed to research and development, continuously striving to innovate and deliver products that significantly impact healthcare.*

## Our Vision

*Thequa envisions a future where medical technology is synonymous with precision, reliability, and improved patient care. We aim to be a global leader in the medical technology sector, recognized for our groundbreaking innovations and steadfast commitment to excellence.*

## Innovative Products

*Thequa's flagship product is our innovative blood collection tube, which is set to transform the blood collection process. Our tubes are designed with advanced technology to ensure accurate and safe blood collection, reducing the risk of contamination and improving diagnostic accuracy.*

## Key Features

- Precision Engineering: Our blood collection tubes are manufactured with precision to ensure consistent performance and reliable results.*
- Safety Focus: Thequa's tubes are designed to minimize the risk of contamination and ensure the safety of both patients and healthcare professionals.*
- Enhanced Diagnostic Accuracy: Our innovative design enhances the accuracy of diagnostic tests, providing healthcare providers with reliable data for better patient care.*
- Ease of Use: Thequa's blood collection tubes are user-friendly, allowing for seamless integration into existing medical workflows.*

## Research and Development

*At Thequa, we place a strong emphasis on research and development, continually exploring new technologies and methodologies to enhance our products. Our dedicated R&D team works tirelessly to identify and develop innovative solutions that address the evolving needs of the medical industry.*

# Plain Tube

## Tube info.

- *Plain Tube is used to obtain serum specimen for clinical biochemistry, immunology and Serology Tests in clinical analysis.*
- *Serum is separated naturally from blood cells and fibrin in plain tube by physico-chemical properties.*



## Cap info.



- » **RED** Cap Color
- » The cap of the tube is tightly sealed and comes out with a rubber cap. It does not come out alone

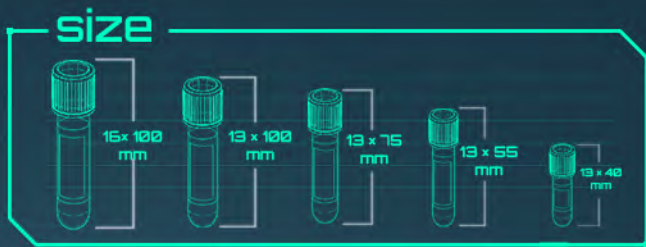
## Shelf Life

24 Months

## Invert Instructions

- » *invert the tube from 6-8 times and centrifuge for 5-10 minutes after blood clotting.*





Tubes material

- GLASS
- PLASTIC



# PT Tube/Pro PT Tube

## Tube info.

- It aims to obtain plasma specimen for coagulation function test, it contains buffered sodium citrate solution with the concentration of 3.2% (0.109mol/L).
- The mixing ratio of blood to sodium citrate is 9:1.



## Cap info.



- » **Blue Cap Color**
- » The cap of the tube is tightly sealed and comes out with a rubber cap. It does not come out alone

## Shelf Life

**3-6 Months**

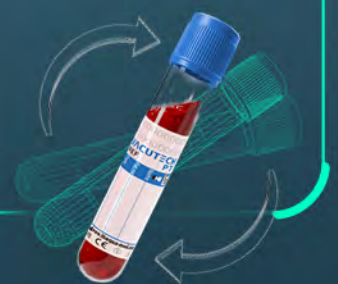
( Normal PT Tube )

**18 Months**

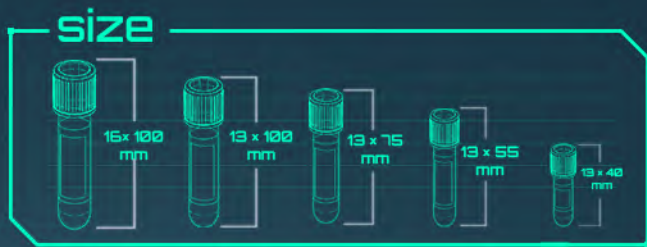
( Plasma Coated Pro PT Tube )

## Invert Instructions

- » **invert the tube from 3-4 times Gently.**



**NEW**



TRU Pro Pt Tube for Prolonged Expiry Upto 18 months



Tubes material

- GLASS
- PLASTIC



# Gel & Clot Activator Tube

## Tube info.

- *Gel & Clot Activator Tube is used to obtain high quality serum specimen for clinical biochemistry, immunology and Serology Tests in clinical analysis.*
- *The tubes contain certain amount of gel at the bottom which has high thermal stability reducing the risk of clogging on testing equipment.*



## Cap info.



- **Yellow Cap Color**
- *The cap of the tube is tightly sealed and comes out with a rubber cap. It does not come out alone*

## Shelf Life

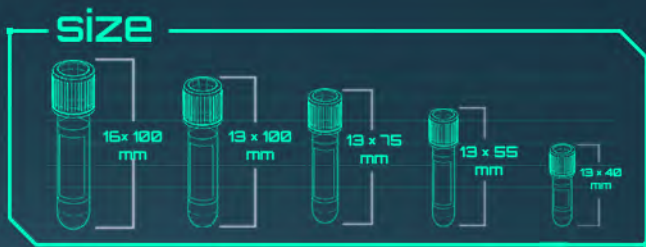
24 Months

## Invert Instructions

- *invert the tube from 6-8 times and centrifuge for 5-10 minutes at 1100-1500 RPM after 10 to 30 minutes coagulation.*







Tubes material

- GLASS
- PLASTIC

0000000000  
0000000000  
**VACUTECH**  
**REF Gel &Clot**  
Date Pat.no Name Lot  
www.thequa-med.com  
VD CE



# Glucose Tube

## Tube info.



*It's used to obtain highly stable plasma for blood glucose testing as it contains potassium oxalate as anticoagulant and sodium fluoride for inhibiting blood glucose degradation.*



## Cap info.



- » **Grey Cap Color**
- » *The cap of the tube is tightly sealed and comes out with a rubber cap. It does not come out alone*

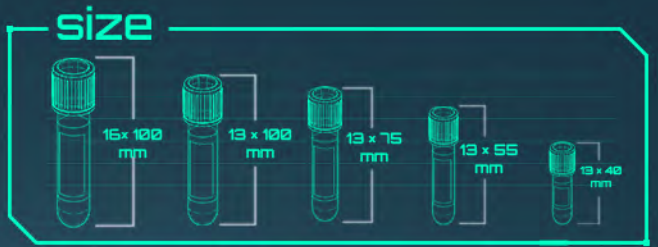
## Shelf Life

18 Months

## Invert Instructions

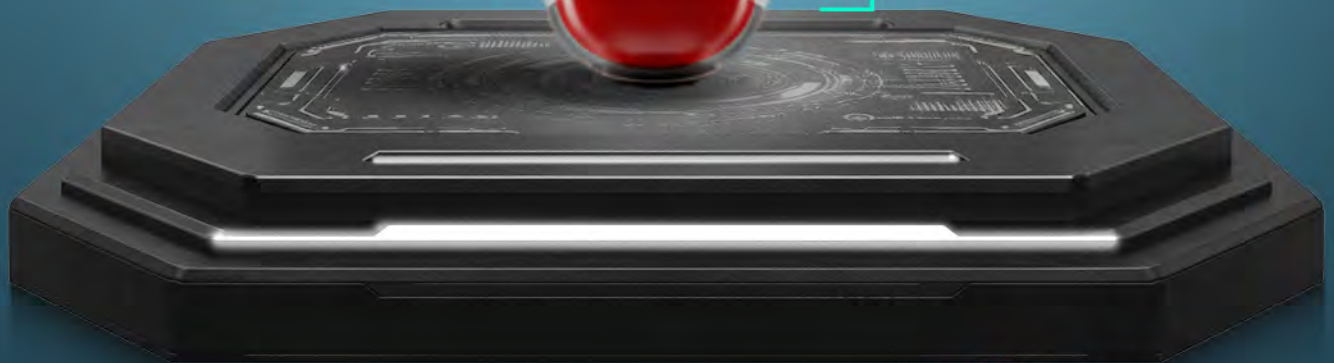
- » *invert the tube from 6-8 times Gently.*





### Tubes material

- GLASS
- PLASTIC



# ESR Tube / ESR Fast

## Tube info.

- It's used for Erythrocyte Sedimentation Rate Test, it contains buffered sodium citrate solution with the concentration of 3.8% (0.129mol/L)..
- The citrate: blood ratio (according to the Westergren method) is 1:4, so the tubes contain 0.4 ml of stable 3.8% sodium citrate solution.



## Cap info.



- » **Black Cap Color**
- » The cap of the tube is tightly sealed and comes out with a rubber cap. It does not come out alone

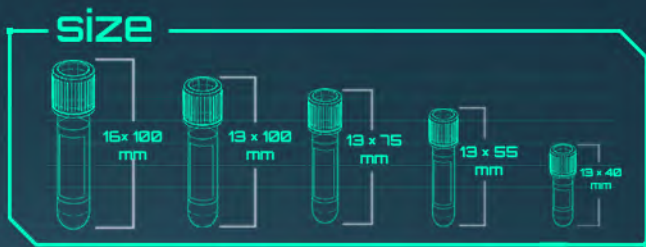
## Shelf Life

24 Months

## invert Instructions

- » **invert the tube from 6-8 times Gently.**





Tubes material

- GLASS
- PLASTIC



# Heparin Tube

## Tube info.

- It aims to obtain plasma specimen for clinical chemistry for emergency treatment and blood rheology test.
- The tube wall is sprayed with lithium heparin or sodium heparin anticoagulants.



## Cap info.



- » **Green Cap Color**
- » The cap of the tube is tightly sealed and comes out with a rubber cap. It does not come out alone

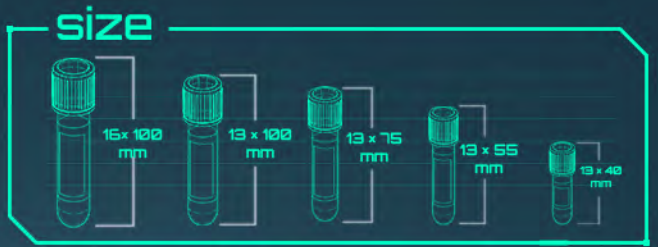
## Shelf Life

18 Months

## Invert Instructions

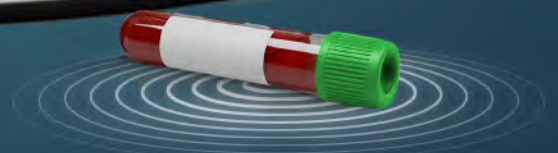
- » **invert the tube from 6-8 times Gently.**





Tubes material

- GLASS
- PLASTIC



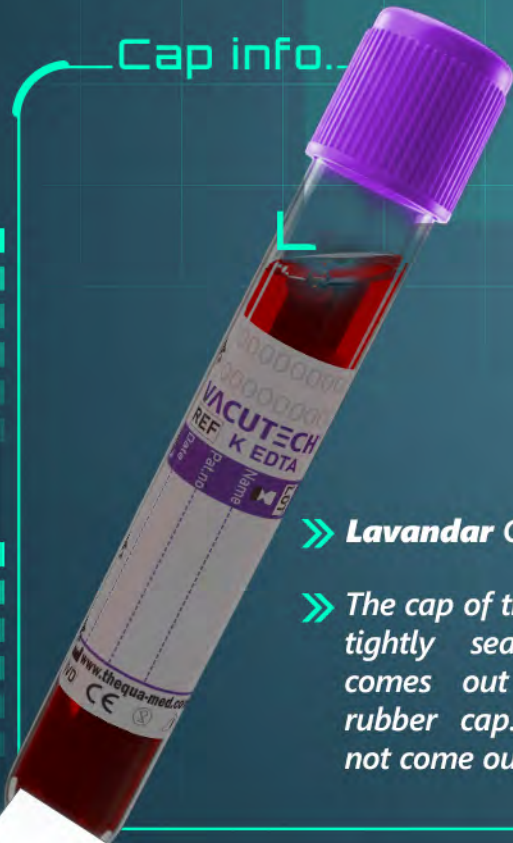
# Edta Tube

## Tube info.

- It's widely used for hematology test and blood routine examination, EDTA is sprayed automatically by special instrument to ensure good spreading and anticoagulation effect.
- EDTA Tubes are convenient to be put directly into hematology analyzers to detect without opening the cap.
- K2 and K3



## Cap info.



- » **Lavandar** Cap Color
- » The cap of the tube is tightly sealed and comes out with a rubber cap. It does not come out alone

## Shelf Life

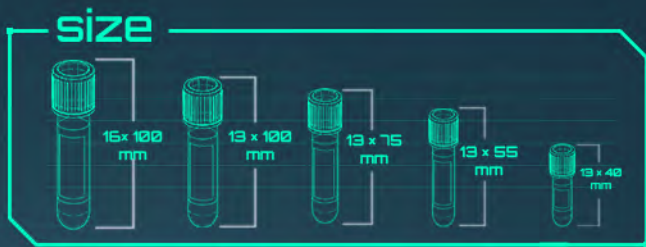
24 Months

## Invert Instructions

- » **invert the tube from 6-8 times immediately after drawing.**







Tubes material

- GLASS
- PLASTIC

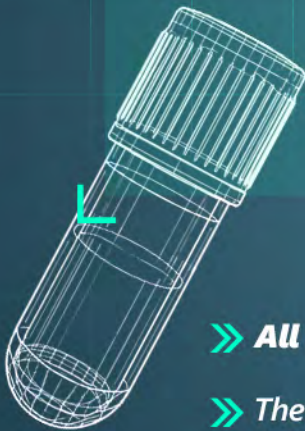


# Pediatric Tube

## Tube info.

- It aims to collect small sample from neonates, newly born, and children.
- Pediatric tubes offered all types of additives including (EDTA - Clot Activator - Gel Clot - ESR - Heparin - Citrate and Palin ).

## Cap info..



- » **All Cap Colors**
- » The cap of the tube is tightly sealed and comes out with a rubber cap. It does not come out alone

## Shelf Life

Based on  
Additive type

## invert Instructions

- » **invert the tube Accordingly**



**NEW**

size

13 x 55 mm      13 x 40 mm

Tubes material

 **PLASTIC**



# Thyroid Tube

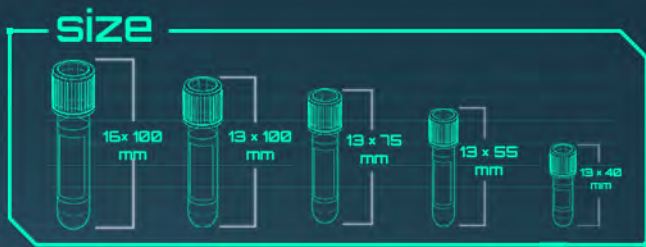
## Tube info.

- ⦿ *clot activators or silicated glass tubes can affect the levels of free thyroid hormones detected in the sample (Alexander et al., 2017; Ross et al., 2016).*
- ⦿ *separator gels may lead to falsely elevated free hormone levels due to hormone diffusion into the gel, while plain tubes without additives might better preserve the integrity of the sample (Warner & Beckett, 2010).*
- ⦿ *Heparin tubes affect the binding of thyroid hormones to their transport proteins and may displace thyroid hormones from their binding sites, resulting in an artificial increase in the measured levels of free thyroid hormones (Warner & Beckett, 2010).*
- ⦿ *EDTA chelation can indirectly influence thyroid hormone measurements by altering the binding dynamics between thyroid hormones and their transport proteins. By binding to calcium ions, EDTA can disrupt the equilibrium between free and bound thyroid hormones, resulting in artificially elevated levels of free thyroid hormones (Kaplan et al., 2003).*
- ⦿ *EDTA can change the sample's pH and ionic strength, impacting the stability and integrity of thyroid hormones. It can also affect the conformation of thyroid hormone-binding proteins, changing their affinity for thyroid hormones and, consequently, the measured levels of free hormones (Ross et al., 2016).*
- ⦿ *Polyethylene terephthalate (PET) tubes may absorb thyroid hormones, affecting test results.*



***Our new PET Plasma coated Thyroid tube is designed in such a way to avoid all the above mentioned confounders***

**NEW**



Tubes material

 **COATED PLASTIC**



# OEM & CONTRACT MANUFACTURING

*We excel in providing customized OEM manufacturing solutions that encompass the seamless integration of your exclusive logo into our labeling, ensuring a personalized and distinctive product branding experience .*

## Technology Transfere

*we take pride in offering a full package of technology transfer services to our clients. This comprehensive solution is designed to facilitate the seamless transfer of technology and knowledge between parties, ensuring a smooth and efficient process from start to finish.*

*Our technology transfer package encompasses a wide range of services, including but not limited to:*

- In-depth analysis and assessment of the technology to be transferred*
- Customized planning and strategy development for the transfer process*
- Documentation and legal support to ensure compliance and protection of intellectual property rights*
- Training and knowledge transfer sessions for the receiving party*
- Ongoing support and assistance post-transfer to address any challenges or questions that may arise*

## Paper Label

### PAPER

*To allow marking with any pen*



## Plastic Label

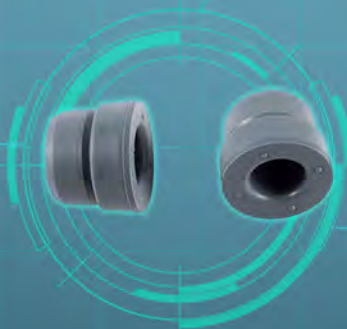
### PLASTIC

*Chemical resistant with barcode identification  
For GDPR Compliance*



*Automated machine  
compatible Rubber*

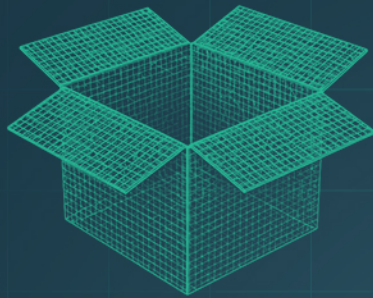
*Cost effective  
Rubber*



*Silicon coated  
Rubber*

*Non Coated Rubber*

# Packaging



**Carton = 12 Racks = 1200 Tubes**

# Packing



**20 FT = 700 Cartons**  
*( 840,000 ) Tubes*

**40 FT = 1580 Cartons**  
*( 1,896,000 ) Tubes*

**40 HQ = 1860 Cartons**  
*( 2,232,000 ) Tubes*



# Global reach



- *Egypt*
- *Morocco*
- *Sudan*
- *Algeria*
- *Somalia*
- *England*
- *Netherlands*
- *Switzerland*
- *Romania*
- *Djibouti*
- *Brazil*
- *Saudi Arabia*
- *Tunisia*
- *Kenya*
- *Tanzania*
- *Libya*
- *Senegal*
- *Greece*
- *Zambia*
- *Bangladesh*
- *United Arab Emirates*

# Certificates

**CERTIFICATE**  
**CERTIFICATE NUMBER: IVDR-EC-REP-EG-21-01**

**Holder of certificate:** **Thegus for Medical Industries**  
 175 Deventer Industrial zone  
 SAGST CITY, AL MUKHAYYAN, 20887  
 EGYPT

**Holder S.R.N** EG-MF-000009218

**Applied Regulation** IVDR (2017/746)  
 IN VITRO DIAGNOSTIC MEDICAL DEVICE REGULATION

**Product Identity** **VACUTECH**  
 Blood Collector vacuum Tube  
 1500 (2020/07/02)  
 Class A (2nd Evaluation)

**EUAR** **Qualitech International B.V.**  
 Sarapha Park, Sittardse 17  
 2120BT Mookerdyk  
 The Netherlands

**EUAR S.R.N** NL-AR-000002908

**Competent Authority** Ministerie van Volksgezondheid, Welzijn en Sport  
 P.O. Box 20206  
 The Hague  
 The Netherlands

**Dutch listing in CA #** **ML - CA0020-2021 - 58962**

**Valid From** 24.05.2022  
**Valid Until** 24.05.2027  
**First Issue** 25.05.2021

Qualitech International, the EUAR of the certificate holder, hereby declares that we have reviewed the technical file and found it to be compliant with the abovementioned regulation. We hereby confirm that we have listed the abovementioned product with the Dutch Competent Authority. The certificate holder issued a declaration of conformity, and they are ready to affix the CE mark in the following format.

**CE**

U.S.A. Quality Director  
 24.05.2022

USA #1 Office 1, Four West, 24-26 Dallas Road, Dickinson, North Dakota 58117 USA Reg# 8953211	USA #2 121 North Market Street Suite 1010N, Wilmington, DE 19801 Reg# 6963554	Canada #1 368 SCHEPEN PI. 1870N, MISSISSAUGA, ON L4X 1L7 Reg# 280780396	Netherlands #1 Emmestraat 17, 2120BT Mookerdyk Reg# 81753030
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**CERTIFICATE**  
**CERTIFICATE NUMBER: IVDR-US-AGENT-EG-21-01**

**Establishment Name** **Thegus for Medical Industries**  
 175 Deventer Industrial zone  
 SAGST CITY, AL MUKHAYYAN, 20887  
 EGYPT

**Owner/Operator #** 10081573

**Registered Number** 2019543362

**Applied Regulation** 21 CFR 820 | 86A.9125

**Product Identity** **VACUTECH**  
 Blood Collector vacuum Tube  
 SYSTEM: BLOOD COLLECTION, VACUUM ASSISTED,  
 MANUAL  
 Product Code KST  
 Class I  
 Medical Specialty: Hematology

**US Agent** **Qualitech International L. L. C.**  
 1201 North Dakota Street Suite 111  
 Wilmington, DE US 19801  
 U.S.A.

**Valid From** 25.05.2022  
**Valid Until** 24.05.2027  
**First Issue** 25.05.2021

Qualitech International L.L.C, the US Agent of the certificate holder, hereby declares that we have reviewed the technical Documentation and found it to be compliant with the abovementioned regulation. We hereby confirm that we have listed the abovementioned product with the US Food and Drug Administration. Listing can be found in the following link: <https://www.accessdata.fda.gov/cdrh/cdrhdevices/submit/submit.cfm?tbl=742727155>

**FDA**

US Agent  
 25.05.2022

USA #1 Office 1, Four West, 24-26 Dallas Road, Dickinson, North Dakota 58117 USA Reg# 8953211	USA #2 121 North Market Street Suite 1010N, Wilmington, DE 19801 Reg# 6963554	Canada #1 368 SCHEPEN PI. 1870N, MISSISSAUGA, ON L4X 1L7 Reg# 280780396	Netherlands #1 Emmestraat 17, 2120BT Mookerdyk Reg# 81753030
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AUG 2020

MAY 2021

MAR 2022

MAR 2022



FSC  
NETHERLANDS

**IDA**

شهادة تسجيل  
 رقم التسجيل: 27914/2022  
 تاريخ الإصدار: 14/08/2020  
 اسم المنشأة الصناعية: شركة ثيغوس الطبية  
 رقم المنشأة الصناعية: 140802008

الجهة المختصة: وزارة الصحة  
 رقم الترخيص: 170/2021

الرقم	اسم المنتج	نوع المنتج	الكمية
1	مجموعة اختبار	مجموعة اختبار	36.480
2	مجموعة اختبار	مجموعة اختبار	36.480

رقم التسجيل القديم: 170/2021

**FREE SALES CERTIFICATE**

The undersigned hereby declares that, according to the Directives on In Vitro Diagnostics, which is based on Regulation (EU) 2017/746,  
 Qualitech International L.L.C.  
 1201 North Dakota Street Suite 111  
 Wilmington, DE 19801  
 U.S.A.

is the authorized representative of the manufacturer,  
 Thegus for Medical Industries  
 175 Deventer Industrial zone SAGST CITY, 20887  
 EGYPT

which has its authorized address in the Netherlands and is authorized to manufacture and/or supply the product described in the attached list.

**Blood collection tubes**  
**VACUTECH**

This Free Sales Certificate is valid up to and including February 28, 2022.  
 The Hague, March 21, 2022

Dr. H.A. van der Vlist  
 Head of Department

OUR reference: 2022/044  
 Certificate number: 33201



**AUG 2022**

**MAR 2023**

**FEB 2024**

**MAY 2024**



# Where We are



**ROMANIA**

Municipiul Botoșani, Aleea  
MAXIM GORIK, Nr. 19, Scara  
B, Ap.3, județ



**EGYPT**


 Unit No. 170,  
Developers Area,  
Industrial Complex,  
Sadat City, Menoufia  
Governorate

 Apartment 8, 3rd Floor ,  
Grand gate  
Al-morshedy Building ,  
Ring Road  
Cairo ,Egypt




**TANZANIA**

Tanzania investment center  
P.O. Box938, Dar es-salaam

 [info@thequa-med.com](mailto:info@thequa-med.com)

Contact us

[+20 112 1111 810](tel:+201121111810) 

[www.Thequa-med.com](http://www.Thequa-med.com)