

We are human

in.vent
D I A G N O S T I C A G M B H

Product List

Human Biomaterials



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We keep you up to date!

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Website



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From Spin-off to Full – Service Partner

Founded in 1997 in Hennigsdorf near Berlin, in.vent Diagnostica supplies ethically sourced human biomaterials to diagnostics manufacturers and research institutions worldwide.

1997

Company Founded

in.vent Diagnostica GmbH founded as a spin-off of the research department of B.R.A.H.M.S

2000

Independent Sourcing Partner

Project-based sourcing of biological raw materials for the diagnostic industry.

2003/2004

Certified Quality

Certified to DIN EN ISO 9001 (2003) and DIN EN ISO 13485 (2004).

2010

Production & Proficiency Testing

Strong growth in large-scale production and proficiency testing (EQA) samples.

2018

Own Study Centre

Opening of our study centre "Blut Hilft Forschen" (Blood Helps Research), enabling in-house blood collection for research and diagnostic projects.

2019

in.vent Clinical Services (ICS)

End-to-end support for analytical and clinical performance studies, IVDR validation and CE marking of IVD assays.

2020/2022

Own Control Materials

EC certificate for In.QualiCheck PSA (2020), followed by In.QualiCheck PCT and Calprotectin (2022).

2024

New Cold Storage Facility

Expansion of our storage and logistics services with a new cold storage facility for approx. 190 pallets of human biomaterials and IVD kits.

Ethical Principles & Values

Human biomaterials require respect, transparency and responsible handling.



Respect & Informed Consent

We respect the dignity, autonomy and rights of every donor. Where consent is required, donors receive clear information before providing documented informed consent.



Ethical Review

Projects are reviewed by a competent ethics committee or Institutional Review Board (IRB) whenever required.



Purpose-Limited Use

Human biomaterials are used only within the scope permitted by the applicable consent, ethics approval and/or other lawful basis.



Privacy & Data Protection

Personal data are handled confidentially in accordance with the GDPR. Data and samples are pseudonymised or anonymised, as appropriate.



Responsible Partnerships

We work with qualified physicians, clinics, networks and organisations that meet applicable ethical, legal and quality requirements.



Quality & Oversight

Our quality management system is certified according to ISO 9001 and ISO 13485.



Our Ethical & Regulatory Framework

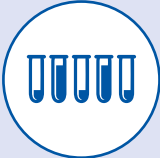
WMA Declaration of Helsinki 2024 • WMA Declaration of Taipei 2016 • GDPR • Regulation (EU) 2017/746 (IVDR) • ISO 20916:2019 • ICH E6(R3), where applicable



**HUMAN BIOMATERIALS
FOR A HEALTHIER TOMORROW.**

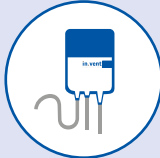
Product Overview

Our Key Benefits



Panels & Controls

Small-volume samples, prospective collections and customised panels across a wide range of biomarkers and matrices.



Bulks

Large-volume single donations from normal and disease-state donors – standard or customised.



Pools

Pooled human material, ethically sourced and verified for diagnostic R&D, production and quality assurance.



Collectives

Sample collectives compiled to your indication, parameter or patient group.



Human Tissues

Validated fresh-frozen tissues for protein extraction and biomarker research.



Assay Development

Contract and in-house development of coated-tube, ELISA and rapid tests.



	Panels & Controls	Bulks	Pools
Delivery	Ambient, blue ice or dry ice; optional temperature monitoring	Dry ice	Dry ice
Storage	According to sample type	-18 °C	-18 °C
Condition	Liquid or lyophilised	Liquid frozen	Liquid frozen
Thawing	Reconstitution instructions included (lyophilised)	Upright at 4-10 °C, mix gently every 30 min	Upright at 4-10 °C, mix gently every 30 min

All materials for research, development, production and quality assurance – not for therapeutic use.

THE COMPLEXITY OF YOUR REQUIREMENTS
IS OUR STANDARD.

Link Products:



in.vent Services

Precision at Every Step – Your Research, Our Commitment

At **in.vent**, we are committed to providing exceptional service across a spectrum of needs in the biomedical field. Our service portfolio is designed to accommodate a range of requirements from basic storage solutions to advanced processing, ensuring that every client finds exactly what they need for precise and efficient handling of biological materials.

Comprehensive Technical Services:

Our expertise extends to the precise filling of biomaterials, a service we proudly offer. Our capabilities range from handling small volumes starting from µl-range up to 5ml per vial to large-scale fillings in the litre range, accommodating a variety of project scales with precision and care.

We also specialize in the freeze-drying of human biomaterials, having developed optimized lyophilization programs tailored for a diverse array of materials such as serum, urine, stool, and tissue extracts. For clients looking to dry such materials, we offer services using our lyophilizer, which accommodates small to medium-scale projects on a surface area of 1.4m².

Filling & Lyophilisation Services		
Product No.	Trade Name	Content
830000001	Filling of Human Liquids	From minute volumes up to 5ml
830000002	Filling of Human Liquids	From 5ml to 1000ml
830000003	Lyophilisation Service	1000 - 5000pcs
Customized Storage Services		
Product No.	Trade Name	Temperature
830000004	Single Unit Storage	Stored at 2-8°C
830000005	Pallet Storage	Stored at 2-8°C
830000006	Single Unit Storage	Stored at <-15°C
830000007	Pallet Storage	Stored at <-15°C
830000008	Single Unit Storage	Stored at -80°C

We provide professional, temperature-controlled storage services, offering conditions maintained at 2-8°C and below -15°C. With the opening of our new warehouse, we now accommodate large-scale storage on Euro pallets. Our facilities are equipped with a double cooling system and an integrated emergency power supply to consistently maintain optimal temperatures. Additionally, all our warehouses are monitored around the clock to ensure the utmost reliability.

Precision in Every Drop, Integrity in Every Sample

Advanced Serum and Plasma Processing Services:

For more than 25 years, in.vent has perfected a suite of processes for the treatment of human serum and plasma. We are pleased to make these expert processes available as a service to handle your materials with the utmost care and precision.

Inactivation Services		
Product No.	Trade Name	Content
830000009	Heat Inactivation	Human serum or plasma
830000012	Photodynamic Virus Inactivation	Human plasma
Depletion Services		
Product No.	Trade Name	Content
830000013	Immunoglobulin	Human serum or plasma
830000014	Steroid Hormones	Human serum or plasma
830000015	Vitamin B12	Human serum or plasma
830000010	Delipidation	Human serum or plasma
830000011	Defibrination	Human plasma
Further modifications		
Product No.	Trade Name	Content
830000016	Pool Production	10 components
830000017	Sterile Filtration	1mL-100L

Experience the **in.vent** difference. We don't just meet standards; we set them. Elevate your project with services that anticipate and adapt to your research needs, ensuring breakthrough results every time.

CONTACT US TO CUSTOMIZE
YOUR SERVICE EXPERIENCE!



in.vent Study Site

Preanalytics Perfected - Your Project, Our Mission

At **in.vent**'s study site, you are empowered with full control over preanalytic conditions, ensuring that every aspect of your project is managed to your exact specifications. Discover unparalleled precision and customization in a facility designed to advance your research.



Depending on your project assignment, we look for both healthy and disease state donors for small or large volume donations.

You will have full autonomy over:

- **Donor selection** based on age, gender, BMI, and pre-existing medical conditions.
- **Donor preparation** for specific conditions like sitting or lying, fasting, medication use, and time of day to align perfectly with your study requirements.
- **Processing conditions** including time, speed, and temperature to ensure optimal sample integrity.
- **Choice of matrices** such as K2/K3EDTA or citrate plasma, Li-Heparin plasma, serum, urine, faeces, saliva, swabs, capillary blood, and whole blood to suit your research needs.
- **Disease state selection**, which serves the focus of your projects on specific health conditions, including allergy, diabetes type I/II, pregnancy, and rheumatoid arthritis.

Realization of Individual Customer Projects

Customer service:

- We are able to use our customer's materials, or materials required by the customer, such as: tubes, blood collection bags, swabs, bottles and more
- Use customer's devices or equipment for project realization
- Process samples according to the protocol provided by the customer

Support of the customer's project: Receiving Ethical Approval

Perfectly designed for conducting matrix comparisons, stability tests, performance studies, and more.

**WE LOOK FORWARD TO PREPARING
A CUSTOMIZED OFFER FOR YOU.**



**Fresh blood service
within 24 h across
the EU**



**Clinical Studies
according to IVDR**



**Customised Service –
According to your
specifications**

in.vent Clinical Services

The key to CE: in.vent Clinical Services (ICS) the IVD CRO

in.vent Clinical Services is a specialist department of in.vent Diagnostica GmbH, Europe’s leading experts for human biosample procurement.

We assist our clients in the planning, setup, conduct, and evaluation of studies with in-vitro diagnostic devices (IVDs). Our services cover all project phases from start to finish.

Our scope is defined by your individual requirements. Small pre-admission studies are covered just as complete **IVDR-compliant** clinical performance studies.

We will guide you through the entire way towards CE-certification and cover your clinical validation needs for Class B, C and D devices.

EVERYTHING YOU NEED FOR YOUR VALIDATION STUDY IN A SINGLE SERVICE PACKAGE. ALL IN ONE!

Clinical Studies:

The main obstacle between you and the CE-mark is the Clinical Performance Study. Our experts will plan, conduct, and evaluate these challenging studies for you, complying with IVDR, ISO 20916, and all other applicable guidelines.

in.vent Study Centres:

Benefiting from our own study centres, we can freely adapt processes according to your needs. We have complete control over pre-analytical conditions, entailing maximum reliability of clinical data.

Samples:

No study without samples! in.vent Diagnostica GmbH is the No. 1 source for procurement of human biomaterials. We can arrange prospective collections globally and according to the requirements of your product’s intended purpose.

Compliance:

Your studies will be designed according to all applicable standards. Obtaining ethical and regulatory clearance before study start is our day-to-day business. On top, we are certified according to ISO 9001 and ISO 13485.

Diagnostic Studies from Start to Finish



Pricing

Our standard service offer comes in **five levels** (Sprint, Basic, Basic+, Pro, and Premium) which differ in project complexity. Please see below for details and prices. Product-specific deviations from these standards are of course possible and encouraged.

	ICS Sprint	ICS Basic	ICS Basic+	ICS Pro	ICS Premium
Retrospective sample set*	✓	✓	✓	✓	✓
Study plan	✓	✓	✓	✓	✓
Study evaluation	✓	✓	✓	✓	✓
Study report	✓	✓	✓	✓	✓
Prospective sample set**		✓	✓	✓	✓
Ethical clearance			✓	✓	✓
Sample size upgrade 500***				✓	✓
Sample size upgrade 1000****					✓
IVDR-compliance warranty				✓	✓

* Leftover samples with limited clinical background. 100 negative, 100 positive samples.

** Samples collected project-specifically from individuals representing the intended target population of the index test. 150 prospective samples are included in this set.

*** Number of prospective samples increased to 500

**** Number of prospective samples increased to 1000

Service level	Price	Timeline
ICS Sprint	50,000€	3 months
ICS Basic	100,000€	4.5 months
ICS Basic+	120,000€	6 months
ICS Pro	200,000€	9 months
ICS Premium	350,000€	12 months

In.QualiSet Panels support performance evaluation of serological assays across analytical and diagnostic sensitivity and specificity in the framework of the IVDR Common Specifications [Implementing Regulation (EU) 2022/1107]. Their composition is aligned with the respective evaluation schemes specified in the Common Specifications to simplify the generation of required performance data and support manufacturers on their path towards compliance with Regulation (EU) 2017/746 (IVDR).

Sensitivity Panels

In.QualiSet Sensitivity Panels provide ready-to-use specimen collections for diagnostic sensitivity evaluation. Designed to support performance studies in line with IVDR Common Specifications, they help streamline study preparation and generate robust performance data.

Product No.	Trade Name	Description
Diagnostic sensitivity, HBV		
810005003	In.QualiSet HBsAg Confirmatory Panel 300	300-sample panel of HBsAg-positive specimens for the evaluation of confirmatory assays, e.g. Annex VI, Table 3
810005004	In.QualiSet HBsAg/αHBc First-Line Panel 400	400-sample panel of HBsAg- and αHBc-positive specimens for the evaluation of first-line assays, e.g. Annex VI, Tables 1 and 2
840001000	In.QualiSet HBV Fresh Specimen 25	Customized service providing 25 same-day specimens from HBV-positive patients, e.g. Annex VI, Table 1
Diagnostic sensitivity, HCV		
810005007	In.QualiSet αHCV Confirmatory Panel 300	300-sample panel of αHCV-positive specimens for the evaluation of confirmatory assays, e.g. Annex V, Table 3
810005008	In.QualiSet αHCV First-Line Panel 400	400-sample panel of αHCV-positive specimens for the evaluation of first-line assays, e.g. Annex V, Tables 1 and 2
840001001	In.QualiSet HCV Fresh Specimen 25	Customized service providing 25 same-day specimens from HCV-positive patients, e.g. Annex V, Table 1
Diagnostic sensitivity, HIV 1/2		
810005010	In.QualiSet αHIV-1 Confirmatory Panel 200	200-sample panel of αHIV-1-positive specimens for the evaluation of confirmatory assays, e.g. Annex III, Table 3
810005011	In.QualiSet αHIV-1 First-Line Panel 400	400-sample panel of αHIV-1-positive specimens for the evaluation of first-line assays, e.g. Annex III, Tables 1 and 2
810005014	In.QualiSet αHIV-2 First-Line Panel 100	100-sample panel of αHIV-2-positive specimens for the evaluation of first-line assays, e.g. Annex III, Tables 1 and 2
840001002	In.QualiSet HIV-1 Fresh Specimen 25	Customized service providing 25 same-day specimens from HIV-1-positive patients, e.g. Annex III, Table 1

Matrix Equivalence Panels

In.QualiSet Matrix Equivalence Panels provide paired serum and plasma specimens for matrix equivalence evaluation in accordance with IVDR Common Specifications.

Product No.	Trade Name	Description
Analytical Sensitivity, Matrix Equivalence		
840001020	In.QualiSet HBV Matrix Equivalence Panel	Customized panel comprising paired serum and plasma specimens from 25 HBV-positive patients and 25 negative donors
840001021	In.QualiSet HCV Matrix Equivalence Panel	Customized panel comprising paired serum and plasma specimens from 25 HCV-positive patients and 25 negative donors
840001022	In.QualiSet HIV-1 Matrix Equivalence Panel	Customized panel comprising paired serum and plasma specimens from 25 HIV-1-positive patients and 25 negative donors

Specificity Panels

The Common Specifications define diagnostic specificity schemes based on negative specimen populations such as blood donors and relevant clinical cohorts. In.QualiSet Specificity Panels provide these populations in line with the respective requirements.

Product No.	Trade Name	Description
Diagnostic Specificity, Blood Donors		
810005020	In.QualiSet Blood Donor Panel 5000	5000-sample panel of unselected blood donations from at least two donation sites, including first and repeat donors
810005021	In.QualiSet Blood Donor Panel 1000	1000-sample panel of unselected blood donations from at least two donation sites, including first and repeat donors
810005024	In.QualiSet Blood Donor Panel 200	200-sample panel of unselected blood donations
Diagnostic Specificity, Clinical Cohorts		
810005027	In.QualiSet Hospitalized Patients Panel	200-sample panel of donations from hospitalized patients representing various clinical conditions and medications
810005042	In.QualiSet Pregnancy Panel	200-sample panel of donations from pregnant women representing various gestational ages

Interference Panels

In.QualiSet Interference Panels provide a modular system of defined specimen groups for the evaluation of potentially interfering and cross-reacting substances. The panels can be used individually or combined according to the specific requirements of the respective evaluation scheme.

Product No.	Trade Name	Description
Interfering and Cross-Reacting Substances		
810005040	In.QualiSet Interference Panel 100+ (configurable)	Configurable panel of ≥ 100 samples selected from the range of In.QualiSet Interference Panels
810005028	In.QualiSet General Interference Panel 50+	52-sample panel representing 16 common interfering and cross-reacting substances
810005029	In.QualiSet Vaccination Interference Panel	15-sample panel representing vaccinations against 5 common pathogens
810005030	In.QualiSet Inflammation Interference Panel	12-sample panel representing 4 inflammatory markers
810005031	In.QualiSet Hepatitis Interference Panel	12-sample panel representing 4 serological markers
810005032	In.QualiSet Herpes Interference Panel	15-sample panel representing 5 serological markers against herpes viruses
810005033	In.QualiSet Microbial Pathogen Interference Panel	15-sample panel representing serological markers against 5 bacterial and eukaryotic pathogens
810005034	In.QualiSet Respiratory Pathogen Interference Panel	12-sample panel representing serological markers against 4 respiratory pathogens

2 Human Biomaterials – Normals

The **in.vent** panels of normal donors are designed for use throughout the whole value chain of in-vitro diagnostic test kits, e.g. for R&D and quality control departments.

The **in.vent** panels of normal donors are used for production purposes. The samples consist of native human biomaterial with no additives.

Normal donors are defined to be “normal” according to the German Transfusion Act. The following criteria have to be fulfilled for donation of blood, not including plasmapheresis:

Criterion	Requirement
1. Anamnesis with initial physical examination by a physician	
2. Leucocytes, erythrocytes, thrombocytes, mean corpuscular volume (MCV)	Normal
3. Hemoglobin or hematocrit	Female: Hb > 125g/l or Hct > 38% Male: Hb > 135g/l or Hct > 40%
4. Age	18 - 68 years, special criteria for exceptions > 68 years
5. Weight	Minimum 50 kg
6. Blood pressure	Systolic: 100 - 180 mm Hg diastolic: < 100 mm Hg
7. Pulse	No clinical signs, frequency 50 - 100/min
8. Temperature	No fever
9. Clinical global impression	No disease
10. Skin at puncture site	No lesion

Furthermore there are several criteria for excluding potential donors e.g.: neurologic diseases, cardiovascular diseases, malignant neoplasm, allergies. Potentially infected donors are excluded as well in case they are infected with HIV-1 or HIV-2, HBV, HCV, HTLV type I or type II, protozoal diseases or syphilis. Potential donors who consume drugs, abnormal volumes of alcohol or abuse therapeutics are excluded as well as further high risk groups.



Blood Products by in.vent

Whole Blood

Whole human blood from standard blood donation including all physiologically occurring blood components like cells, proteins and other components.

Further Specifications:

- Venous, arterial or capillary
- With anticoagulant additives like lithium heparin, EDTA, sodium citrate
- Selection of particular donor groups (e.g. age, gender and lifestyle habits)

We offer fresh blood service with **express delivery** refrigerated or fresh frozen. Blood draws are available in small, medium and large volumes.

Plasma

Centrifuged whole blood without blood cells (erythrocytes, thrombocytes, leukocytes).

Examples:

- Sodium citrate plasma for coagulation tests
- Lithium heparin plasma for clinical chemistry
- Sodium fluoride plasma for determination of lactate and glucose

Serum

True human serum off the clot: naturally coagulated blood, no anticoagulants.

Samples for a variety of parameter analyses:

- Minerals
- Hormones
- Proteins
- Vitamins
- Enzymes



Normal Human Sera

The **in.vent** pools, bulks and collectives of normal human sera are suitable for production of standards and control materials. Our true serum off the clot (OTC) is collected from blood that is allowed to coagulate naturally after collection. It has not been exposed to any anticoagulant.

Product No.	Trade Name	Unit
810000100	Human Super Healthy Donors, Collective	100pcs/collective
810000101	Normal Human Serum Donors, Collective	100pcs/collective
810000102	Normal Human Serum OTC, Pool	10L
810000103	Normal Human Serum OTC	100ml or 1000ml
810000104	Normal Human Serum, Pool	100ml or 1000ml
810000105	Normal Human Serum, converted (CPD) Pool	100ml or 1000ml
810000106	Normal Human Serum, converted Pool	50L
810000107	Normal Human Serum, converted (CPD) Pool	50L
840000006	Normal Human Serum OTC, female Donors Pool	100ml or 1000ml
840000007	Normal Human Serum OTC, male Donors Pool	100ml or 1000ml
820000100	Normal Human Serum OTC bottled Single Donation	150 - 250ml
820000101	Normal Human Serum OTC, female Single Donation	150 - 250ml
820000102	Normal Human Serum OTC, male Single Donation	150 - 250ml



Normal Human Plasma

The **in.vent** pools, bulks and collectives of normal human plasma are suitable for production of standards and control materials.

Product No.	Trade Name	Unit
810000108	Normal Human Citrate Plasma, Pool	100ml or 1000ml
810000109	Normal Human Citrate Plasma (CPD), Pool	100ml or 1000ml
810000110	Normal Human K2EDTA Plasma, Pool	10ml or 250ml
810000111	Normal Human K3EDTA Plasma, Pool	10ml or 250ml
810000112	Normal Human Lithium-Heparin Plasma, Pool	100ml or 1000ml
840000001	Normal Human Citrate Plasma, female Donors Pool	100ml or 1000ml
840000002	Normal Human Citrate Plasma, male Donors Pool	100ml or 1000ml
840000003	Normal Human Citrate Plasma (CPD), female Donors Pool	100ml or 1000ml
840000004	Normal Human Citrate Plasma (CPD), male Donors Pool	100ml or 1000ml
840000005	Normal Human Citrate Plasma (CPD), low triglycerides, Pool	100ml or 1000ml
820000103	Normal Human K2EDTA Plasma Single Donation	150 - 280ml
820000104	Normal Human K3EDTA Plasma Single Donation	150 - 280ml
820000105	Normal Human Citrate Plasma Single Donation	450 - 850ml
820000106	Normal Human Citrate Plasma, female Single Donation	450 - 850ml
820000107	Normal Human Citrate Plasma, male Single Donation	450 - 850ml
820000108	Normal Human Citrate Plasma (CPD) Single Donation	150 - 280ml
820000109	Normal Human Citrate Plasma (CPD), female Single Donation	150 - 280ml
820000110	Normal Human Citrate Plasma (CPD), male Single Donation	150 - 280ml
820000111	Normal Human Lithium-Heparin Plasma Single Donation	150 - 280ml

Other Normal Human Biomaterials

The **in.vent** single donations of other normal human biomaterials are suitable for production of standards and control materials.

Product No.	Trade Name	Unit
820000112	Normal Human Faeces, Single Donation	1g
820000113	Normal Human Saliva, Single Donation	1ml
820000114	Normal Human Urine, Single Donation	1ml
820000115	Red Blood Cell Concentrate, High Quality, Single Donation	150 - 350ml
820000116	Red Blood Cell Concentrate, Single Donation	150 - 350ml



3 Cell Culture Materials

The **in.vent** pools and bulks of normal human sera and plasma – cell culture materials are intended to be used in production departments for standards or controls and for cell culture techniques.

Cell cultures are an indispensable tool in biomedical research. They play a decisive role in constantly expanding our understanding of diseases and developing new diagnostic and therapeutic procedures. in.vent has therefore expanded its portfolio to include cell culture materials of human origin. These are obtained in an ethically correct manner under GMP conditions. A large number of quality control tests, such as proof of sterility, infectious disease testing or proof of freedom from endotoxins, guarantee the unrestricted usability of the materials in cell culture media.

Human Serum

Product No.	Trade Name	Unit
810000200	Normal Human AB Serum OTC, male Donors, Pool	50L*
810000201	Normal Human AB Serum OTC, male Donors	100ml
810000202	Normal Human AB Serum, male Donors, converted Pool	50L*
810000203	Normal Human AB Serum, male Donors, converted	100ml
810000204	Normal Human AB Serum, male Donors, converted (CPD) Pool	50L*
810000205	Normal Human AB Serum, male Donors, converted (CPD)	100ml
840000008	Normal Human Serum OTC, Blood Type AB, mixed Gender	100ml
820000200	Normal Human AB Serum OTC, Male Single Donation	150 - 250ml
820000201	Normal Human AB Serum, male converted (CPD) Single Donation	150 - 250ml

* Available in bulk on request.



Human Plasma

Product No.	Trade Name	Unit
810000206	Normal Human AB Citrate Plasma, male Donors Pool	50L
810000207	Normal Human AB Citrate Plasma, male Donors Pool	100ml
810000208	Normal Human AB Citrate Plasma (CPD), male Donors Pool	50L
810000209	Normal Human AB Citrate Plasma (CPD), male Donors Pool	100ml
820000202	Normal Human AB Citrate Plasma, male converted Single Donation	450 - 850ml
820000203	Normal Human AB Citrate Plasma (CPD), male Single Donation	150 - 250ml
820000204	Normal Human AB Citrate Plasma, male Single Donation	450 - 850ml

Other Human Material

Product No.	Trade Name	Unit
820000205	Platelet Concentrate Blood Type AB, Single Donation	150 - 350ml
820000206	Platelet Concentrate Mixed Blood Type, Single Donation	150 - 350ml



Custom Request?

inquiry.inventdiagnostica.de

4 Quality Controls & Standard Materials

in.vent quality controls are designed to be used in laboratory quality control settings, in quality departments and R&D units. They are applicable for solving tasks of precision, accuracy or correctness of in-vitro diagnostic assay measurements and analyte components throughout the whole value chain of in-vitro diagnostic test kits or assays.

in.vent quality controls are suitable for internal quality control and also for external quality assurance such as proficiency testing and external quality assessment schemes (EQAS) in medical laboratories. All quality controls consist of true native human materials or artificial matrices and are as identical to patient samples as possible. They are free of any additives unless the analytes or regulations require different production schemes. All quality controls are tested with CE-certified test systems and found negative or non-reactive for HIV-1/2 Ab, HBsAg and HCV Ab.

CE-certified Controls

Product No.	Trade Name	Matrix
810000300*	In.QualiCheck Calprotectin Control Level 1 QC 2.1.20	Faeces
810000301*	In.QualiCheck Calprotectin Control Level 2 QC 2.1.21	Faeces
810000302*	In.QualiCheck Calprotectin Control Level 3 QC 2.1.22	Faeces
810000306	In.QualiCheck Prostate Specific Antigen (PSA) Control QC 2.1.8	Serum

* Available through April 2027



Examples of Analytes for your customised and individually developed Quality Control:

in.vent Individual Quality Controls

in.vent individual quality controls are produced according to detailed customer requirements. They are usable for internal laboratory performance monitoring as well as for proficiency testing. Production of CE-certified controls available.

Product No.	Trade Name	Matrix
Autoimmunity		
840000400	Anti-Extractable Nuclear Antigens (ENA) Control	Serum
840000402	Antinuclear Antibodies (ANA) Control	Serum
840000403	Antiphospholipid Syndrome (APS) Control	Serum
840000404	Autoimmune Dermatositis Control	Serum
840000405	Autoimmune Endocrinopathy Control	Serum
840000406	Diabetes Mellitus Control	Serum
840000407	Gluten Sensitive Enteropathy Control	Serum
840000408	Hepatopathy Control	Serum
840000409	Myasthenia Gravis Control	Serum
840000410	Paraneoplastic Neuropathy Control	Serum
840000411	Peripheral Neuropathy Control	Serum
840000412	Rheumatoid Arthritis Control	Serum
840000413	Vasculitis and Glomerulonephritis Control	Serum
840000580	Anti-Saccharomyces cerevisiae Antibodies Control (ASC - A)	Serum



Product No.	Trade Name	Matrix
Endocrinology		
840000440	Adrenal & Pituitary Gland Control	Serum
840000441	Aldosterone Control	Serum
840000442	Bone Metabolism Control	Serum
840000443	Calcium Metabolism & Special Thyroid Control	Serum
840000444	Cortisol Salivary Control	Saliva
840000445	Fertility Control	Serum
840000446	Hematopoietic Growth Factors Control	Serum
840000447	Pancreatic & Gastrointestinal Control	Serum
840000448	Thyroid Autoantibodies Control	Serum
840000449	Thyroid Hormones Control	Serum
840000450	Virilization Control	Serum
840000573	Bile acid control	Serum
840000575	Thyroid Multicontrol 1-physiological	Serum
840000576	Thyroid Multicontrol 2-Hyperthyroidism	Serum
840000577	Thyroid Multicontrol 3-Hypothyroidism	Serum
840000578	Glucagon Control	Serum
840000579	Calcitonin Control	Serum
Medical Drugs		
840000460	Antibiotics, Cytostatics & Cardiac Glycosides Control	Serum
840000462	Antiepileptics, Cardiac Glycosides & Antiasthmatic Control	Serum
840000553	Immunosuppressants Control	Whole Blood
840000464	Paracetamol Control	Serum
840000465	Salicylic Acid Control	Serum
Gastroenterology		
840000470	Calprotectin & Elastase Faecal Control	Faeces
840000471	Helicobacter pylori Antigen Faecal Control	Faeces
840000472	Hemoglobin (Hb) – Haptoglobin Complex Faecal Control	Faeces
840000473	Occult Blood Faecal Control	Faeces
Immunology		
840000480	Gammopathies Control*	Serum
840000481	IgG Subclasses Control*	Serum
840000482	Immunophenotyping Control	Whole Blood
840000483	Interferon Gamma Release Control	Whole Blood
840000574	Basophil Activation Test Control (BAT) (NEW)	Whole Blood
Pregnancy Diagnostics		
840000490	1st Trimester Pregnancy Control	Serum
840000491	2nd Trimester Pregnancy Control	Serum
840000492	Preeclampsia Control	Serum
840000590	Fetal RhD-Factor Control	Plasma
Allergy		
840000500	Inhalation Allergy Control	Serum
840000501	Insect Allergy Control	Serum
840000502	Nutrition Allergy Control	Serum

*Suitable for all specific verification methods

Product No.	Trade Name	Matrix
Alcohol Abuse		
840000510	Carbohydrate deficient Transferrin (CDT) Control	Serum
840000511	Ethyl Glucuronide (EtG) Control	Urine
840000512	Phosphatidylethanol (PEth) Control	Whole Blood
Urology		
840000530	Urine Standard Profile, qualitative Control	Urine
840000531	Urine Standard Profile, quantitative Control	Urine
Oncology		
840000540	Prostate Specific Antigen (PSA) Control	Serum
Metabolism & Nutrition		
840000550	Vitamin B12 deficient Control	Serum
Liquor Diagnostics		
840000560	Cerebrospinal Fluid (CSF) Standard Profile Control	Serum
Infection Diagnostics		
840000572	Anti TBE Control	Serum
840000520	Procalcitonin (PCT) Control	Serum

Link Controls:



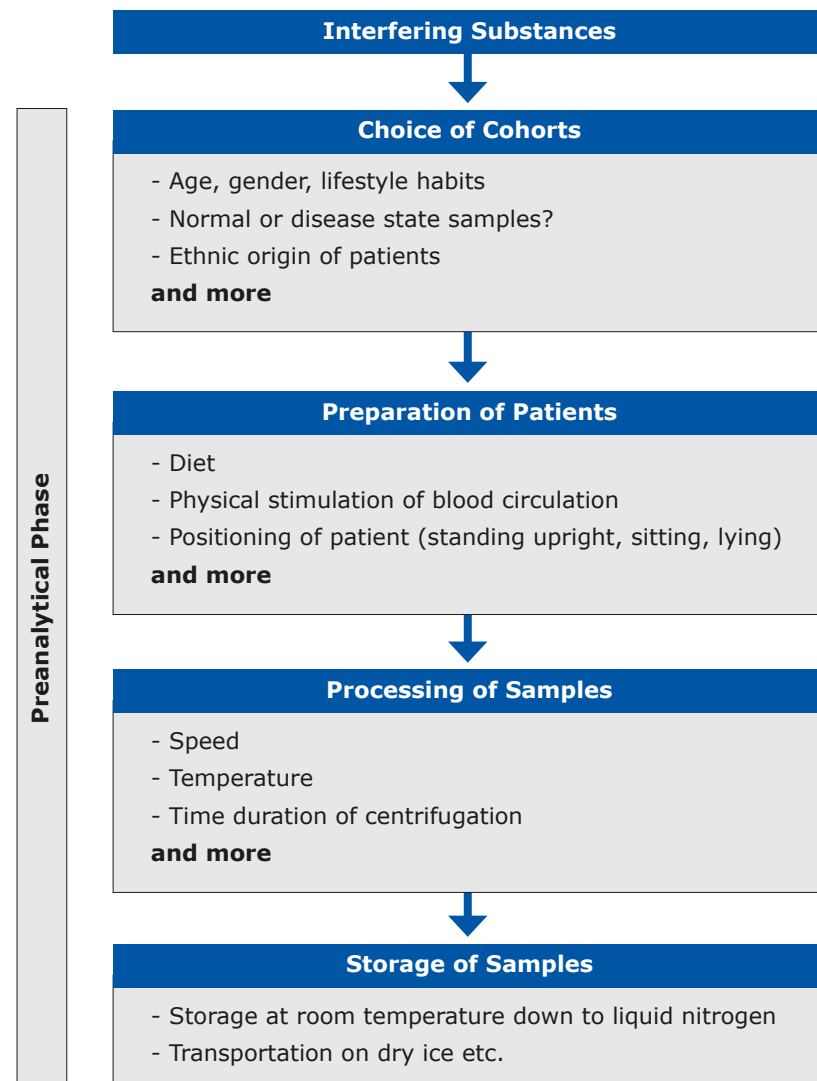
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The **in.vent** Panels of Preanalytics cover a broad range of stressed samples and interfering substances. The panels are designed to be used in R&D and quality control departments, mainly for study schemes regarding the influences of different anticoagulants and interfering substances on the results of the laboratory testing or on biomarkers. All samples of the panels of anticoagulants are drawn under identical conditions and donated from the identical donor during one single donation.

Examples of Interfering Substances

The generation of test results is divided into a preanalytical and an analytical phase. The preanalytical phase includes all influences that act before the measuring procedure. The analytical phase involves purely methodical and metrological conditions¹.



¹ Klinikleitfaden Labordiagnostik

The **in.vent** panels are designed to be used in R&D and quality control departments, mainly for study schemes regarding the influences of different anticoagulants and interfering substances on the results of the laboratory testing or on biomarkers. All samples of the panels of anticoagulants are drawn under identical conditions and donated from the identical donor during one single donation.

Matrix Effects and Interference

Product No.	Trade Name	Unit
Anticoagulants		
810000402	Normal Human Matrix Quartet: Serum OTC, K3EDTA Plasma, Lithium heparin Plasma, Citrate Plasma	10 Sets
810000403	Normal Human Matrix Quartet: Serum OTC, K2EDTA Plasma, Lithium heparin Plasma, Citrate Plasma	10 Sets
810000404	Normal Human Matrix Quintet: Serum OTC, K2EDTA Plasma, K3EDTA Plasma, Lithium heparin Plasma, Citrate Plasma	10 Sets
Interfering Substances		
810000400	Gerontology Serum OTC Panel	10 Samples
810000401	Obesity Serum OTC Panel	10 Samples
820000400	HAMA positive Serum Single Donation	150 - 250ml
820000401	HAMA high positive Serum Single Donation	150 - 250ml
820000402	HAMA positive Citrate Plasma Single Donation	450 - 850ml

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Defined hormonal states appear due to pregnancy and fertility cycles. They are suitable to monitor changing biological states and abnormalities. Hormonal pregnancy and ovulation tests are widely available at low cost and in high demand. Nevertheless, hormone test results and their individual consequences are often a very sensitive topic and thereby must be extremely accurate. Worldwide contraception has already risen up to be a common topic. After using hormonal contraception there is a new trend of self-monitoring and understanding of autologous processes and a need of reports about the individual hormonal state.

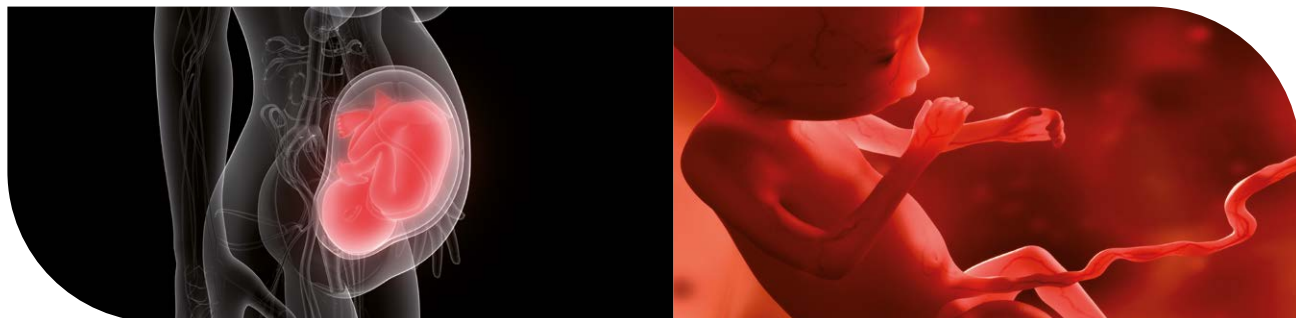
The **in.vent** fertility & pregnancy materials are designed for use throughout the whole value chain of in-vitro diagnostic test kits, e. g. for R&D and quality control departments. The samples consist of native human bio-material with no additives. Titters are based upon availability. Consecutive donations are donated by one donor on several occasions.

Classification Weeks of Pregnancy

Trimester	Week of Pregnancy
1 st	1 st to 12 th week of pregnancy
2 nd	13 th to 24 th week of pregnancy
3 rd	from 25 th week of pregnancy

Product No.	Trade Name	Unit
810000500	1st Trimester of Pregnancy Human Serum OTC, Pool	100ml
810000501	2nd Trimester of Pregnancy Human Serum OTC, Pool	100ml
810000502	3rd Trimester of Pregnancy Human Serum OTC, Pool	100ml
810000503	Anti-Muellerian Hormone (AMH) Serum OTC Panel	Panel
810000504	Follicle Stimulating Hormone (FSH) Serum OTC Panel	Panel
810000505	Luteinizing Hormone (LH) Serum OTC Panel	Panel

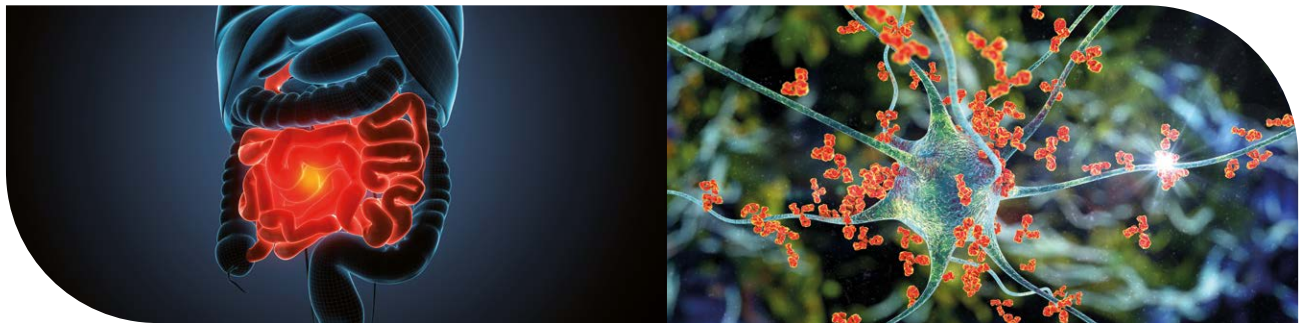
Product No.	Trade Name	Unit
820000500	17-Beta-Estradiol positive Serum OTC Single Donation	1 - 10ml
820000501	1st Trimester of Pregnancy Human Serum OTC Single Donation	1 - 10ml
820000502	2nd Trimester of Pregnancy Human Serum OTC Single Donation	1 - 10ml
820000503	3rd Trimester of Pregnancy Human Serum OTC Single Donation	1 - 10ml
820000504	Anti-Muellerian Hormone (AMH) positive Serum Single Donation	1 - 10ml
820000505	Dehydroepiandrosterone (DHEA) positive Serum Single Donation	1 - 10ml
820000506	Dehydroepiandrosterone-sulfate (DHEA-S) positive Serum Single Donation	1 - 10ml
820000507	Follicle Stimulating Hormone (FSH) positive Serum Single Donation	1 - 10ml
820000508	Gestational Diabetes Serum OTC Single Donation	1 - 10ml
820000509	Human Amniotic Fluid Single Donation	0.5 - 1ml
820000510	Luteinizing Hormone (LH) positive Serum Single Donation	1 - 10ml
820000511	Multiparous Pregnancy Human Serum OTC Single Donation	1 - 10ml
820000512	Preeclampsia Serum OTC Single Donation	1 - 10ml
820000513	Pregnancy Urine Single Donation	10ml
820000514	Progesterone Positive Serum OTC Single Donation	1 - 10ml
820000515	Sexual hormone-binding Globulin (SHBG) positive Serum Single Donation	1 - 10ml
820000516	β -Human Choriongonadotropin (β -hCG) positive Pregnancy Serum Single Donation	1 - 10ml
820000517	β -Human Choriongonadotropin (β -hCG) positive Pregnancy Urine Single Donation	10ml
820000518	Testosterone Positive Serum Single Donation	1 - 10ml

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Laboratory testing is of great value when evaluating a patient with a suspected autoimmune disease. The results can confirm a diagnosis, estimate disease severity, aid in assessing prognosis and are useful to follow disease activity. Comprehensive laboratory evaluation of a suspected autoimmune illness in conjunction with a thorough clinical evaluation provides a better understanding of a patient’s immunologic disease.

The **in.vent** bulks of autoimmune biomarkers and autoimmune diseases are designed for use throughout the whole value chain of in-vitro diagnostic test kits, e.g. for R&D and quality control departments. They are representative of different types of autoimmune diseases. The bulks consist of native human biomaterial with no additives. Titers are based upon availability.

Product No.	Trade Name	Unit
820000600	Acetylcholine Receptor (AChR) Antibodies positive Serum OTC Single Donation	150 - 250ml
820000601	Acetylcholine Receptor (AChR) Antibodies positive Citrate Plasma Single Donation	450 - 850ml
820000603	ADAMTS-13 positive Citrate Plasma Single Donation	450 - 850ml
820000604	AMA-M2 Antibodies positive Serum OTC Single Donation	150 - 250ml
820000605	AMA-M2 Antibodies positive Citrate Plasma Single Donation	450 - 850ml
820000606	ANA Positive Serum OTC Single Donation	150 - 250ml
820000607	ANA Positive Citrate Plasma Single Donation	450 - 850ml
820000608	Anti-Cyclic Citrullinated Peptide (a-CCP/ACPA) positive Serum OTC Single Donation	150 - 250ml
820000609	Anti-Cyclic Citrullinated Peptide (a-CCP/ACPA) positive Citrate Plasma Single Donation	450 - 850ml
820000610	Autoimmune Hepatitis Serum OTC Single Donation	150 - 250ml
820000611	Autoimmune Hepatitis Citrate Plasma Single Donation	450 - 850ml
820000612	Beta-2-Glycoprotein IgA positive Serum OTC Single Donation	150 - 250ml
820000613	Beta-2-Glycoprotein IgA positive Citrate Plasma Single Donation	450 - 850ml
820000614	Beta-2-Glycoprotein IgG positive Serum OTC Single Donation	150 - 250ml
820000615	Beta-2-Glycoprotein IgG positive Citrate Plasma Single Donation	450 - 850ml
820000616	Beta-2-Glycoprotein IgM positive Serum OTC Single Donation	150 - 250ml
820000617	Beta-2-Glycoprotein IgM positive Citrate Plasma Single Donation	450 - 850ml



Product No.	Trade Name	Unit
820000618	Cardiolipin IgA positive Serum OTC Single Donation	150 - 250ml
820000619	Cardiolipin IgA positive Citrate Plasma Single Donation	450 - 850ml
820000620	Cardiolipin IgG positive Serum OTC Single Donation	150 - 250ml
820000621	Cardiolipin IgG positive Citrate Plasma Single Donation	450 - 850ml
820000622	Cardiolipin IgM positive Serum OTC Single Donation	150 - 250ml
820000623	Cardiolipin IgM positive Citrate Plasma Single Donation	450 - 850ml
820000624	Celiac Disease Serum OTC Single Donation	150 - 250ml
820000625	Celiac Disease Citrate Plasma Single Donation	450 - 850ml
820000626	dsDNA Antibodies positive Serum OTC Single Donation	150 - 250ml
820000627	dsDNA Antibodies positive Citrate Plasma Single Donation	450 - 850ml
820000628	Crohn’s Disease Serum OTC Single Donation	150 - 250ml
820000629	Crohn’s Disease Citrate Plasma Single Donation	450 - 850ml
820000630	Crohn’s Disease Faeces Single Donation	100 - 250g
820000631	Multiple Sclerosis Serum OTC Single Donation	150 - 250ml
820000632	Myasthenia gravis Serum OTC Single Donation	150 - 250ml
820000633	Myasthenia gravis Citrate Plasma Single Donation	450 - 850ml
820000634	Myeloperoxidase (MPO) Antibodies positive Citrate Plasma Single Donation	450 - 850ml
820000635	Pernicious Anemia (PA) Citrate Plasma Single Donation	450 - 850ml
820000636	Primary Biliary Cholangitis (PBC) Serum OTC Single Donation	150 - 250ml
820000637	Primary Biliary Cholangitis (PBC) Citrate Plasma Single Donation	450 - 850ml
820000638	Proteinase 3 (PR3) Antibodies positive Citrate Plasma Single Donation	450 - 850ml
820000639	Rheumatoid Arthritis Serum OTC Single Donation	150 - 250ml
820000640	Rheumatoid Arthritis Citrate Plasma Single Donation	450 - 850ml
820000641	Rheumatoid Factor IgA positive Serum OTC Single Donation	150 - 250ml
820000642	Rheumatoid Factor IgA positive Citrate Plasma Single Donation	450 - 850ml
820000643	Rheumatoid Factor IgG positive Serum OTC Single Donation	150 - 250ml
820000644	Rheumatoid Factor IgG positive Citrate Plasma Single Donation	450 - 850ml
820000645	Rheumatoid Factor IgM positive Serum OTC Single Donation	150 - 250ml
820000646	Rheumatoid Factor IgM positive Citrate Plasma Single Donation	450 - 850ml
820000647	SS-A Antibodies positive Serum OTC Single Donation	150 - 250ml
820000648	SS-A Antibodies positive Citrate Plasma Single Donation	450 - 850ml
820000649	SS-B Antibodies positive Serum OTC Single Donation	150 - 250ml
820000650	SS-B Antibodies positive Citrate Plasma Single Donation	450 - 850ml
820000651	Systemic Lupus Erythematosus (SLE) Serum OTC Single Donation	150 - 250ml
820000652	Total Rheumatoid Factor (tRF) positive Serum OTC Single Donation	150 - 250ml
820000653	Total Rheumatoid Factor (tRF) positive Citrate Plasma Single Donation	450 - 850ml
820000654	Total Rheumatoid Factor (tRF) high positive Serum OTC Single Donation	150 - 250ml
820000655	Total Rheumatoid Factor (tRF) high positive Citrate Plasma Single Donation	450 - 850ml
820000656	U1RNP positive Citrate Plasma Single Donation	450 - 850ml
820000657	Ulcerative Colitis Serum OTC Single Donation	150 - 250ml
820000658	Ulcerative Colitis Citrate Plasma Single Donation	450 - 850ml
820000659	Ulcerative Colitis Faeces Single Donation	100 - 250g



Disease State – Infectious Diseases

The **in.vent** bulks of infectious diseases are patient samples tested positive for designated infectious diseases. These bulks are designed to be used in R&D and quality control departments. The samples consist of native human biomaterial with no additives.

Product No.	Trade Name	Unit
Viral Parameters		
820000700	Cytomegalovirus (CMV) IgG positive Citrate Plasma Single Donation	150 - 850 ml
820000701	Cytomegalovirus (CMV) IgM positive Citrate Plasma Single Donation	150 - 850 ml
820000702	Epstein-Barr Virus Early Antigen (EBV:EA) IgG positive Citrate Plasma Single Donation	150 - 850 ml
820000703	Epstein-Barr Virus Viral Capsid Antigen (EBV: VCA) IgM positive Citrate Plasma Single Donation	150 - 850 ml
820000704	FSME IgG positive Citrate Plasma Single Donation	150 - 850 ml
820000705	FSME IgM positive Citrate Plasma Single Donation	150 - 850 ml
820000706	Hepatitis B Virus Surface Antigen (HBsAg) positive Citrate Plasma Single Donation	150 - 850 ml
820000707	Hepatitis C Virus (HCV) Antibodies positive Citrate Plasma Single Donation	150 - 850 ml
820000708	Hepatitis E Virus (HEV) IgM positive Citrate Plasma Single Donation	150 - 850 ml
820000709	Hepatitis E Virus (HEV) IgM high positive Citrate Plasma Single Donation	150 - 850 ml
820000710	Hepatitis E Virus (HEV) PCR positive Citrate Plasma Single Donation	150 - 850 ml
820000711	Herpes simplex Virus-1 (HSV-1) IgG positive Citrate Plasma Single Donation	150 - 850 ml
820000712	Herpes simplex Virus-1 (HSV-1) IgM positive Citrate Plasma Single Donation	150 - 850 ml
820000713	Herpes simplex Virus-2 (HSV-2) IgG positive Citrate Plasma Single Donation	150 - 850 ml
820000714	Herpes simplex Virus-2 (HSV-2) IgM positive Citrate Plasma Single Donation	150 - 850 ml
820000715	Human Immunodeficiency Virus-1 (HIV-1) positive Citrate Plasma Single Donation	150 - 850 ml
820000716	Human Immunodeficiency Virus-1/2 (HIV-1/2) positive Citrate Plasma Single Donation	150 - 850 ml
820000717	Human Immunodeficiency Virus-1/2 p24 (HIV-1/2 p24) positive Citrate Plasma Single Donation	150 - 850 ml
820000718	Human Immunodeficiency Virus-2 (HIV-2) positive Citrate Plasma Single Donation	150 - 850 ml
810000600	FSME positive Serum OTC Panel	50 pcs/Panel
810000601	FSME Seroconversion Serum OTC Panel	14 pcs/Panel
820000719	Influenza A IgA positive Citrate Plasma Single Donation	150 - 850 ml
820000720	Influenza A IgG positive Citrate Plasma Single Donation	150 - 850 ml
820000721	Influenza B IgG positive Citrate Plasma Single Donation	150 - 850 ml
820000722	Measles IgG positive Citrate Plasma Single Donation	150 - 850 ml
820000745	Varicella Zoster Virus (VZV) IgM high positive Citrate Plasma Single Donation	150 - 850 ml
820000746	Yellow Fever IgG positive Citrate Plasma Single Donation	150 - 850 ml
Viral Parameters Swabs		
820000800	Influenza A positive dry Swab	1 pc
820000801	Influenza A positive with variant Information, dry Swab	1 pc
820000802	Influenza B positive dry Swab	1 pc
820000803	Influenza B positive with variant Information, dry Swab	1 pc
820000804	Respiratory Syncytial Virus (RSV) positive dry Swab	1 pc
820000805	Hospitalised Patient's dry Swab	1 pc

Product No.	Trade Name	Unit
Bacterial Parameters		
820000900	Bordetella pertussis IgG positive Citrate Plasma Single Donation	150 - 850 ml
820000901	Bordetella pertussis IgM positive Citrate Plasma Single Donation	150 - 850 ml
820000902	Bordetella pertussis IgA positive Citrate Plasma Single Donation	150 - 850 ml
820000903	Campylobacter IgM positive Citrate Plasma Single Donation	150 - 850 ml
820000904	Chlamydia pneumoniae IgA positive Citrate Plasma Single Donation	150 - 850 ml
820000905	Chlamydia pneumoniae IgG positive Citrate Plasma Single Donation	150 - 850 ml
820000906	Chlamydia pneumoniae IgM positive Citrate Plasma Single Donation	150 - 850 ml
820000907	Chlamydia trachomatis IgG positive Citrate Plasma Single Donation	150 - 850 ml
820000908	Chlamydia trachomatis IgM positive Citrate Plasma Single Donation	150 - 850 ml
820000909	Coxiella burnetii (Phase II) IgG positive Citrate Plasma Single Donation	150 - 850 ml
820000910	Coxiella burnetii (Phase II) IgM positive Citrate Plasma Single Donation	150 - 850 ml
820000911	Diphtheria IgG negative Citrate Plasma Single Donation	150 - 850 ml
820000912	Diphtheria IgG positive Citrate Plasma Single Donation	150 - 850 ml
820000913	Helicobacter pylori IgA positive Serum OTC Single Donation	150 - 250 ml
820000914	Helicobacter pylori IgG positive Serum OTC Single Donation	150 - 250 ml
820000915	Leptospira IgG positive Citrate Plasma Single Donation	150 - 850 ml
820000916	Mycoplasma pneumoniae IgG positive Citrate Plasma Single Donation	150 - 850 ml
820000917	Mycoplasma pneumoniae IgM positive Citrate Plasma Single Donation	150 - 850 ml
820000918	Mycoplasma spp. IgA positive Citrate Plasma Single Donation	150 - 850 ml
820000919	Syphilis (Treponema pallidum) Antibodies positive Citrate Plasma Single Donation	150 - 850 ml
820000920	Ureaplasma urealyticum IgG positive Citrate Plasma Single Donation	150 - 850 ml
820000921	Ureaplasma urealyticum IgM positive Citrate Plasma Single Donation	150 - 850 ml
Parasitic Parameters		
820001000	Ascaris lumbricoides IgG positive Citrate Plasma Single Donation	150 - 850 ml
820001001	Echinococcus IgG positive Citrate Plasma Single Donation	150 - 850 ml
820001002	Entamoeba histolytica IgG positive Citrate Plasma Single Donation	150 - 850 ml
820001003	Fasciola hepatica IgG positive Citrate Plasma Single Donation	150 - 850 ml
820001004	Filaria Antibodies positive Citrate Plasma Single Donation	150 - 850 ml
820001005	Malaria (Plasmodium spp.) Antibodies positive Citrate Plasma Single Donation	150 - 850 ml
820001006	Malaria Antigen positive Citrate Plasma Single Donation	150 - 850 ml
820001007	Schistosoma IgG positive Citrate Plasma Single Donation	150 - 850 ml
820001008	Strongyloides IgG positive Citrate Plasma Single Donation	150 - 850 ml
820001009	Taenia solium IgG positive Citrate Plasma Single Donation	150 - 850 ml
820001010	Toxocara canis IgG positive Citrate Plasma Single Donation	150 - 850 ml
820001011	Toxoplasma gondii IgA positive Citrate Plasma Single Donation	150 - 850 ml
820001012	Toxoplasma gondii IgG positive Citrate Plasma Single Donation	150 - 850 ml
820001013	Toxoplasma gondii IgM positive Citrate Plasma Single Donation	150 - 850 ml
820001014	Toxoplasma gondii IgM high positive Citrate Plasma Single Donation	150 - 850 ml
Fungal Parameters		
820001100	Candida IgG positive Citrate Plasma Single Donation	150 - 850 ml
Protozoal Parameters		
820001110	Leishmania IgG positive Citrate Plasma Single Donation	150 - 250 ml

7

Disease State –
Thyroid Diseases

Worldwide hypothyroidism and goitre are the most common forms due to dietary iodine deficiency and affect 3-10% of adults. One third of the world’s population currently lives in areas of low dietary iodine levels. In regions of severe iodine deficiency, the prevalence of goiter is up to 80%. In areas without iodine-deficiency, autoimmune diseases such as Hashimoto’s thyroiditis have the highest prevalence (1-2 %).

For hyperthyroidism Graves’ disease is the most common type with a prevalence of 0,5-3%. Although thyroid nodules are common, thyroid cancer is rare though it is the most common endocrine tumour and makes up more than 90% of all cancers of the endocrine glands.

The **in.vent** bulks of biomarkers for thyroid diseases are designed for use throughout the whole value chain of in-vitro diagnostic test kits, e.g. for R&D and quality control departments. The samples consist of native human biomaterial with no additives.

Product No.	Trade Name	Unit
810001100	Anti-Thyroid Peroxidase (anti-TPO) positive Citrate Plasma, Pool	1L
810001101	Anti-Thyroid-Stimulating Hormone Receptor (TRAb) high positive Serum, Pool	1L
810001102	Anti-Thyroid-Stimulating Hormone Receptor (TRAb) high positive Serum, converted Pool	1L
820002000	Anti-Thyroglobulin (anti-Tg) positive Serum Single Donation	150 - 250ml
820002001	Anti-Thyroglobulin (anti-Tg) high positive Serum Single Donation	150 - 250ml
820002002	Anti-Thyroglobulin (anti-Tg) negative Serum Single Donation	150 - 250ml
820002003	Anti-Thyroglobulin (anti-Tg) positive Citrate Plasma Single Donation	450 - 850ml
820002004	Anti-Thyroglobulin (anti-Tg) high positive Citrate Plasma Single Donation	450 - 850ml
820002005	Anti-Thyroglobulin (anti-Tg) negative Citrate Plasma Single Donation	450 - 850ml
820002006	Anti-Thyroid Peroxidase (anti-TPO) positive Serum Single Donation	150 - 250ml
820002007	Anti-Thyroid Peroxidase (anti-TPO) high positive Serum Single Donation	150 - 250ml
820002008	Anti-Thyroid Peroxidase (anti-TPO) negative Serum Single Donation	150 - 250ml
820002009	Anti-Thyroid Peroxidase (anti-TPO) positive Citrate Plasma Single Donation	450 - 850ml
820002010	Anti-Thyroid Peroxidase (anti-TPO) high positive Citrate Plasma Single Donation	450 - 850ml
820002011	Anti-Thyroid Peroxidase (anti-TPO) negative Citrate Plasma Single Donation	450 - 850ml
820002012	Free Thyroxine (fT4) decreased Serum OTC Single Donation	150 - 250ml
820002013	Free Thyroxine (fT4) increased Serum OTC Single Donation	150 - 250ml
820002014	Free Triiodothyronine (fT3) decreased Serum OTC Single Donation	150 - 250ml
820002015	Free Triiodothyronine (fT3) increased Serum OTC Single Donation	150 - 250ml
820002016	Graves’ Disease Serum OTC Single Donation	150 - 250ml
820002017	Hashimoto’s Thyroiditis Serum OTC Single Donation	150 - 250ml
820002018	Hyperthyroidism Serum OTC Single Donation	150 - 250ml
820002019	Hypothyroidism Serum OTC Single Donation	150 - 250ml
820002020	Thyroid Receptor Antibodies (TRAb) positive Serum Single Donation	150 - 250ml
820002021	Thyroid Receptor Antibodies (TRAb) high positive Serum Single Donation	150 - 250ml
820002022	Thyroid Receptor Antibodies (TRAb) negative Serum Single Donation	150 - 250ml
820002023	Thyroid Receptor Antibodies (TRAb) positive Citrate Plasma Single Donation	450 - 850ml
820002024	Thyroid Receptor Antibodies (TRAb) high positive Citrate Plasma Single Donation	450 - 850ml
820002025	Thyroid Receptor Antibodies (TRAb) negative Citrate Plasma Single Donation	450 - 850ml
820002026	Thyroid stimulating Hormone (TSH) decreased Serum OTC Single Donation	150 - 250ml
820002027	Thyroid stimulating Hormone (TSH) increased Serum OTC Single Donation	150 - 250ml
820002028	Total Thyroxine (tT4) decreased Serum OTC Single Donation	150 - 250ml
820002029	Total Thyroxine (tT4) increased Serum OTC Single Donation	150 - 250ml
820002030	Total Triiodothyronine (tT3) decreased Serum OTC Single Donation	150 - 250ml
820002031	Total Triiodothyronine (tT3) increased Serum OTC Single Donation	150 - 250ml



The **in.vent** bulks of allergy are designed for use throughout the whole value chain of in-vitro diagnostic test kits, e.g. for R&D and quality control departments. They are representative of different allergens. The samples consist of native human biomaterial with no additives.

Product No.	Trade Name	Unit
total IgE		
820001200	Total IgE positive Serum OTC Single Donation	150 - 250ml
820001201	Total IgE high positive Serum OTC Single Donation	150 - 250ml
820001202	Total IgE very high positive Serum OTC Single Donation	150 - 250ml
820001203	Total IgE positive Citrate Plasma Single Donation	450 - 850ml
820001204	Total IgE high positive Citrate Plasma Single Donation	450 - 850ml
820001205	Total IgE very high positive Citrate Plasma Single Donation	450 - 850ml



Product No.	Trade Name	Unit
Specific IgE		
820001210	sIgE d1 Dermatophagoides pteronyssinus positive Serum OTC Single Donation	150 - 250ml
820001211	sIgE d202 rDer p1 D. pteronyssinus positive Serum OTC Single Donation	150 - 250ml
820001212	sIgE d203 rDer p2 D. pteronyssinus positive Serum OTC Single Donation	150 - 250ml
820001213	sIgE e1 Cat Dander positive Serum OTC Single Donation	150 - 250ml
820001214	sIgE e101 rCan f1 Dog Lipocalin positive Serum OTC Single Donation	150 - 250ml
820001215	sIgE e102 rCan f2 Dog Lipocalin positive Serum OTC Single Donation	150 - 250ml
820001216	sIgE e5 Dog Dander positive Serum OTC Single Donation	150 - 250ml
820001217	sIgE f10 Sesame Seed positive Serum OTC Single Donation	150 - 250ml
820001218	sIgE f13 Peanut positive Serum OTC Single Donation	150 - 250ml
820001220	sIgE f17 Hazelnut positive Serum OTC Single Donation	150 - 250ml
820001221	sIgE f2 Cow's Milk positive Serum OTC Single Donation	150 - 250ml
820001222	sIgE f24 Shrimp positive Serum OTC Single Donation	150 - 250ml
820001223	sIgE f3 Fish (cod) positive Serum OTC Single Donation	150 - 250ml
820001224	sIgE f4 Wheat positive Serum OTC Single Donation	150 - 250ml
820001225	sIgE f420 Pru p3 positive Serum OTC Single Donation	150 - 250ml
820001226	sIgE f423 Ara h2 positive Serum OTC Single Donation	150 - 250ml
820001227	sIgE f95 Peach positive Serum OTC Single Donation	150 - 250ml
820001228	sIgE g2 Bermuda Grass positive Serum OTC Single Donation	150 - 250ml
820001229	sIgE g6 Timothy positive Serum OTC Single Donation	150 - 250ml
820001230	sIgE i1 Honey Bee Venom positive Serum OTC Single Donation	150 - 250ml
820001231	sIgE i209 rVes v5 Vespula positive Serum OTC Single Donation	150 - 250ml
820001232	sIgE i3 Common Wasp Venom positive Serum OTC Single Donation	150 - 250ml
820001233	sIgE k82 Latex positive Serum OTC Single Donation	150 - 250ml
820001234	sIgE m6 Alternaria alternata positive Serum OTC Single Donation	150 - 250ml
820001235	sIgE t215 Bet v1 positive Serum OTC Single Donation	150 - 250ml
820001236	sIgE t3 Common Silver Birch positive Serum OTC Single Donation	150 - 250ml
820001238	sIgE w1 Common Ragweed positive Serum OTC Single Donation	150 - 250ml

Custom Request?

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Currently, an estimated 589 million adults (aged 20–79) worldwide are living with diabetes mellitus, a number projected by the International Diabetes Federation (IDF) to surge to approximately 853 million by 2050.¹ This rapid increase underscores the urgent need for advanced diagnostic solutions to manage and mitigate the impact of this chronic disease.

Responding to this critical need, the **in.vent** material of biomarkers of diabetes diseases has been meticulously developed for comprehensive application across the entire value chain of in-vitro diagnostic test kits, e.g. for R&D and quality control departments. The products consist of native human biomaterial with no additives.

¹ IDF Diabetes Atlas, 11th edition, 2025

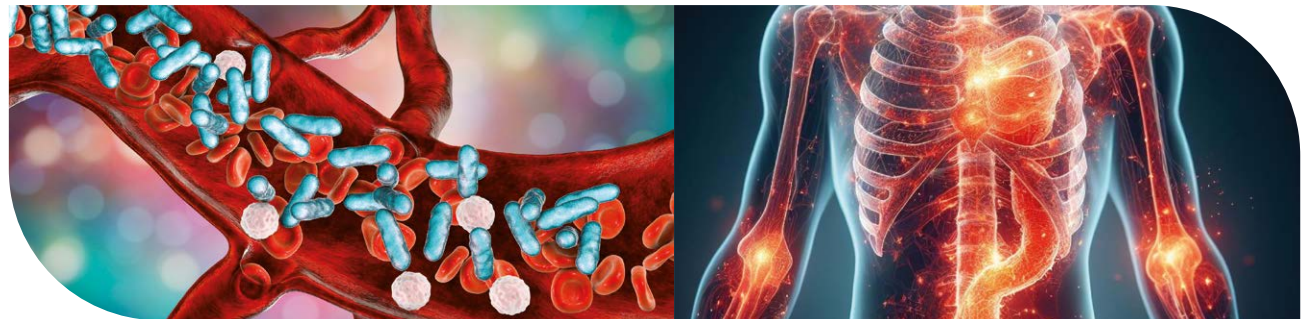
Product No.	Trade Name	Unit
820001300	Diabetes Type I Serum OTC Single Donation	150 - 250ml
820001301	Diabetes Type I Urine Single Donation	10ml
820001302	Diabetes Type II Serum OTC Single Donation	150 - 250ml
820001303	Diabetes Type II Urine Single Donation	10ml
820001304	GAD65 Antibodies positive Serum OTC Single Donation	150 - 250ml
820001305	Insulin Autoantibodies (IAA) positive Serum OTC Single Donation	150 - 250ml
820001306	Islet cell Autoantibodies (ICA) positive Serum OTC Single Donation	150 - 250ml
820001307	Tyrosinkinase 2A Antibodies positive Serum OTC Single Donation	150 - 250ml
820001308	Zinc-8-Transporter Antibodies positive Serum OTC Single Donation	150 - 250ml
840000201	Diabetes Type I Serum, Pool	on request
840000202	Diabetes Type II Serum, Pool	on request
840000203	HbA1c measured whole Blood Single Donation	on request



A huge variety of inflammatory parameters is available for diagnostic of inflammatory diseases. Differentiated immunological tests give detailed information about activity and state of the immune system. In contrast for routine diagnostics and disease monitoring especially for septic patients and serious infections only a few laboratory parameters are suitable for clinical inflammatory monitoring.

The **in.vent** biomarkers for inflammation are designed for use throughout the whole value chain of in-vitro diagnostic test kits, e.g. for R&D and quality control departments. The bulks consist of native human biomaterial with no additives.

Product No.	Trade Name	Unit
820002100	Calprotectin positive Serum Single Donation	150 - 250ml
820002101	C-Reactive Protein (CRP) positive Serum Single Donation	150 - 250ml
820002102	C-Reactive Protein (CRP) high positive Serum Single Donation	150 - 250ml
820002103	C-Reactive Protein (CRP) negative Serum Single Donation	150 - 250ml
820002104	Procalcitonin (PCT) positive Serum Sample	1ml
820002105	Procalcitonin (PCT) high positive Serum Sample	1ml
820002106	Serum Amyloid A (SAA) positive Citrate Plasma Single Donation	450 - 850ml
820002107	Serum Amyloid A (SAA) high positive Citrate Plasma Single Donation	450 - 850ml





Disease State – Oncology

The **in.vent** small volume specimens of oncology biomarkers are designed for use throughout the whole value chain of in-vitro diagnostic test kits, e. g. for R&D and quality control departments. The entire range of laboratory test results is represented within the panels. The samples consist of native human biomaterial with no additives.

Product No.	Trade Name	Unit
810003100	Alpha-1-Fetoprotein (AFP) Serum Panel	100 pcs/Panel
820002200	Alpha-1-Fetoprotein (AFP) positive Serum OTC Sample	1ml
820002201	Breast Cancer Serum OTC Sample	1ml
820002202	Cancer-Antigen 15-3 (CA 15-3) positive Serum OTC Sample	1ml
820002203	Cancer-Antigen 125 (CA 125) positive Serum OTC Sample	1ml
820002204	Cancer-Antigen 19-9 (CA 19-9) positive Serum OTC Sample	1ml
820002205	Carcino Embryonic Antigen (CEA) positive Serum OTC Sample	1ml
820002207	Colon Carcinoma Serum OTC Sample	1ml
820002208	Free Prostate Specific Antigen (fPSA) positive Serum OTC Sample	1ml
820002209	Liver Cancer Serum OTC Sample	1ml
820002210	Lung Carcinoma Serum OTC Sample	1ml
820002211	Neuron Specific Enolase (NSE) positive Serum OTC Sample	1ml
820002212	Prostate Specific Antigen (PSA) positive Serum OTC Sample	1ml



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Disease State – Drugs of Abuse

The **in.vent** human biomaterials of drug abuse and drug intake are designed for use throughout the whole value chain of in-vitro diagnostic test kits, e.g. for R&D and quality control departments. The samples consist of native human biomaterial with no additives.

Product No.	Trade Name	Unit
Serum – Plasma		
820002300	Carbohydrate-Deficient-Transferrin (CDT) positive Serum OTC Single Donation	150 - 250ml
820002301	Carbohydrate-Deficient-Transferrin (CDT) high positive Serum OTC Single Donation	150 - 250ml
820002302	Carbohydrate-Deficient-Transferrin (CDT) very high positive Serum OTC Single Donation	150 - 250ml
820002303	Carbohydrate-Deficient-Transferrin (CDT) positive Citrate Plasma Single Donation	450 - 850ml
820002304	Carbohydrate-Deficient-Transferrin (CDT) high positive Citrate Plasma Single Donation	450 - 850ml
820002305	Carbohydrate-Deficient-Transferrin (CDT) very high positive Citrate Plasma Single Donation	450 - 850ml
840000252	Amphetamine positive Serum Single Donation	1 - 100ml
840000253	Benzodiazepines positive Serum Single Donation	1 - 100ml
840000256	Cocaine positive Serum Single Donation	1 - 100ml
840000257	Ethyl Glucuronide (EtG) positive Human Serum Single Donation	150 - 250ml
840000258	Fentanyl positive Serum Single Donation	1 - 100ml
840000259	Normal Human Serum OTC, abstinent Patients Single Donation	150 - 250ml
840000260	Opiates positive Serum Single Donation	1 - 100ml
840000261	Phosphatidylethanol (PEth) positive Serum Single Donation	150 - 250ml
840000262	Tetrahydrocannabinol (THC) positive Serum Single Donation	1 - 100ml
840000263	Tramadol positive Serum Single Donation	1 - 100ml
840000264	Tricyclic Antidepressants positive Serum Single Donation	1 - 100ml
Urine		
840000265	Amphetamine positive Urine Single Donation	10ml
840000266	Benzodiazepines positive Urine Single Donation	10ml
840000267	Cocaine positive Urine Single Donation	10ml
840000268	Ethyl Glucuronid (EtG) positive Human Urine Single Donation	10ml
840000269	Fentanyl positive Urine Single Donation	10ml
840000270	Opiates positive Urine Single Donation	10ml
840000271	Tetrahydrocannabinol (THC) positive Urine Single Donation	10ml
840000272	Tramadol positive Urine Single Donation	10ml
840000273	Tricyclic Antidepressants positive Urine Single Donation	10ml

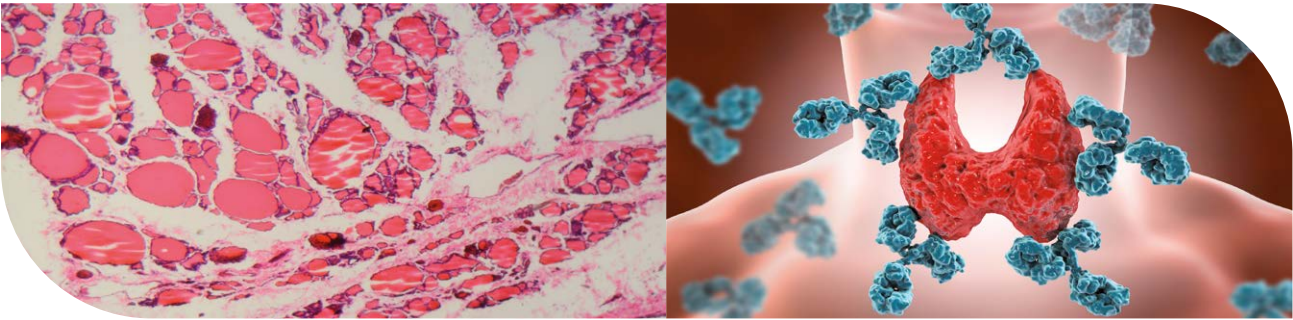
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Disease State – Human Tissues & Specialities

in.vent provides raw human materials for further processing such as tissues or extracts and special matrices such as saliva or application-specific matrices such as urine or faeces. All tissues & specialties are of the highest quality and offered in a routine and professional manner for individual diagnostic scopes and development of smart new assays.

Product No.	Trade Name	Unit
Tissues		
820002400	Human frozen Thyroid Tissue Sample	1 - 100g
840000332	FFPE Human Tumour Tissue Sample	On request
840000333	Human frozen Liver Tissue Sample	On request
840000334	Human frozen Pancreatic Tissue Sample	On request
Specialties		
810001200	Cerebrospinal Fluid (CSF)	25ml or 250ml
810001201	Immunoglobulin depleted Human Serum OTC	20ml or 100ml
810001202	Steroid depleted Human Serum OTC	20ml or 100ml
840000335	Normal Human Blood Cell Lysate	On request



Custom Request?

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Human Biomaterials

