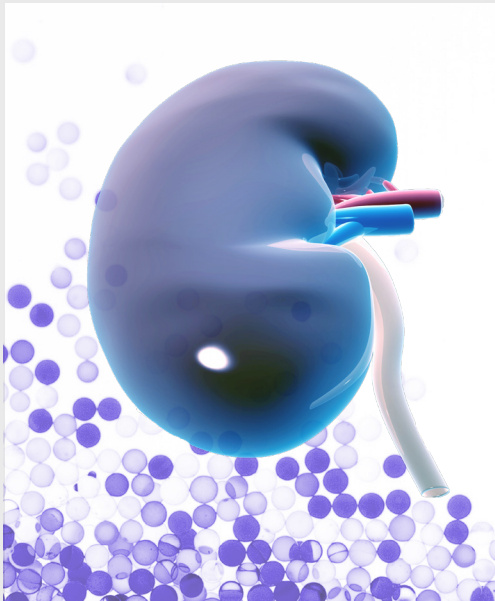


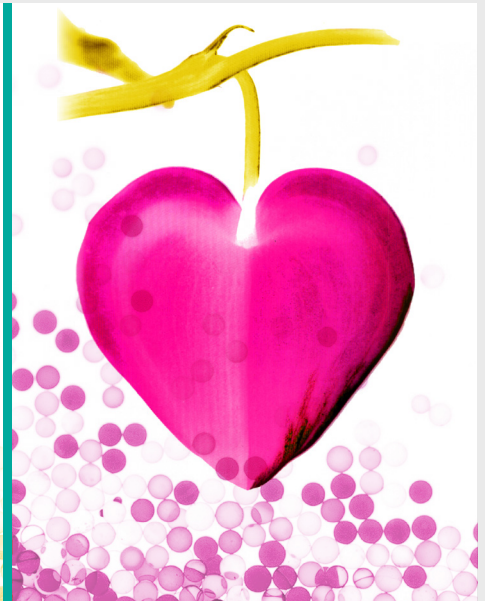
OUR ELISA KITS DESIGNED FOR YOUR CLINICAL & PRE-CLINICAL RESEARCH



QUANTITATIVE



EASY-TO-USE



RELIABLE

Features & Benefits

- ✓ Characterized epitope-mapped antibodies
- ✓ Validated for clinical samples according to ICH and FDA guidelines
- ✓ Human serum based calibrators & controls
- ✓ Proprietary products – in-house R&D and production
- ✓ Personal and competent customer service

SERVICE MEASUREMENTS available





BIOMEDICA develops and produces internationally recognized high quality ELISA kits for clinical research in the field of cardiorenal diseases as well as bone and mineral disorders.

Our customers include numerous top ranking scientific institutions worldwide, well-known CROs and laboratories in the pharmaceutical industry. We are setting the standard for clinical research using serum-based calibrators and controls, thus enabling researchers to collect biologically reliable data. The provided immunoassays are fully validated. Biomedica's experienced and qualified team of professionals provides technical and scientific support. The company's manufacturing processes comply with ISO 9001:2015 management system standards. For specific markers, Biomedica has become a market leader with a continuously growing portfolio. A worldwide distribution network has been established for these products as well as an analytical service, which offers customers in-house analysis of their samples.

Analytical Testing Service

Biomedica offers a comprehensive testing service for all our proprietary ELISAs as well as assays from other brands, including Luminex testing services.

As an experienced ELISA assay developer and manufacturer located in the heart of Europe, our staff contributes to every step in the making of our ELISAs, thereby gaining a unique understanding of the assay's performance.

Using our analytical customized testing service, even customers without access to a fully equipped laboratory or skilled staff are able to obtain reliable biomarker results from samples of both human and animal origin.

Advantages

- | | |
|--------------------------------|------------------------------|
| ✓ High-quality services | ✓ Expert sample handling |
| ✓ Comprehensive results report | ✓ Experienced, trained staff |

Assay Development for ELISA Tests



Assay Design · Optimization · Validation

- Technical consultancy
- Assay design and development
- Selection and characterization of specific antibodies
- Sourcing of raw materials
- Validation, stability studies, and documentation

Contract Manufacturing for ELISA & Single Reagents



Plate Coating · Lyophilization · Dispensing · Labelling · Packaging

- Product manufacturing – ISO 9001:2015 certified
- Flexible solutions from small pilot runs to large-scale batches
- Antibody coating of microtiter plates, production of buffers up to 25 L volume
- Lyophilization – large scale up to 1200 vials between 0.2-1 mL aliquots
- Packaging and labelling – all packaging and label options available
- Dispensing of reagents under sterile conditions
- Full OEM services – relabelling, redispensing, and other

Quality Testing for ELISA & Lateral Flow Device (LFD)



Analysis · Stability Testing · Validation

- Analysis of human sample matrices – serum, plasma, and others
- Analysis of non-human samples – rodent and various animal species
- Analysis of specificity and cross-reactivity
- Stability studies, incl. accelerated aging of reagents and transport tests
- Validation (e.g. recovery, precision, parallelism) according to ICH quality guidelines

Custom Sample Measurement Services for ELISA & Luminex



Tailored testing protocols customized to your specifications

- Verified results – comprehensive, presented in an analytical report
- Rapid turnaround time – flexible testing schedules
- Expert consultation – experienced scientists and technicians

Human Vanin-1 (Urine) ELISA

Cat. No. BI-VAN1U

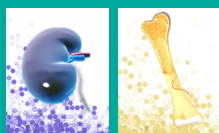


Key areas: nephrology
Related diseases: acute kidney injury, diabetic nephropathy, drug-induced acute kidney injury, hydronephrosis

Measures: human Vanin-1
Sample type: urine
Assay time: 4.5 hr
Sample volume: 10µl / well
Use: research use only
References: 5 (product specific)

Intact FGF23 ELISA

Cat. No. BI-20700

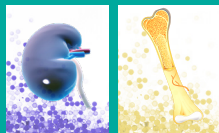


Key areas: bone and phosphate metabolism, nephrology, cardiovascular homeostasis
Related diseases: hypophosphatemia, vitamin D disorders, autosomal dominant hypophosphatemia (ADHR), X-linked hypophosphatemia (XLH), fibrous dysplasia of the bone

Measures: intact FGF23
Sample type: human plasma (EDTA, citrate, heparin), protocol for human serum, urine and cell culture supernatant
Assay time: 3.5 hr
Sample volume: 50µl / well
Use: research use only
References: 18 (product specific)

C-terminal FGF23 ELISA

Cat. No. BI-20702

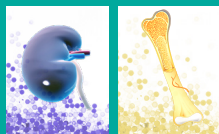


Key areas: bone and phosphate metabolism, nephrology, cardiovascular homeostasis
Related diseases: hypophosphatemia, vitamin D disorders, autosomal dominant hypophosphatemia (ADHR), X-linked hypophosphatemia (XLH), fibrous dysplasia of the bone

Measures: intact and the C-terminal fragment of FGF23
Sample type: human serum and plasma (EDTA, citrate, heparin)
Assay time: overnight assay
Sample volume: 50µl / well
Use: research use only
References: 69 (product specific)

Sclerostin ELISA

Cat. No. BI-20492

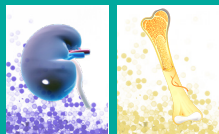


Key areas: bone and mineral metabolism
Related diseases: bone and vascular diseases, osteoporosis, cancer induced bone diseases, renal disorders

Measures: Wnt-signalling antagonist Sclerostin (SOST)
Sample type: human serum and plasma (EDTA, citrate, heparin), cell culture and urine protocol
Assay time: overnight assay
Sample volume: 20µl / well
Use: research use only
References: 330+ (product specific)

Bioactive Sclerostin ELISA

Cat. No. BI-20472



Key areas: bone and mineral metabolism
Related diseases: bone and vascular disease, osteoporosis, cancer induced bone diseases, renal disorders

Measures: bioactive Sclerostin and Sclerostin fragments; antibody binding occurs in the LRP5/6 binding region
Sample type: human serum and plasma (EDTA, citrate), cell culture and urine protocol
Assay time: 3.5 hrs
Sample volume: 20µl / well
Use: research use only
References: 25 (product specific)

DKK-1 ELISA

Cat. No. BI-20413



Key areas: bone and mineral metabolism
Related diseases: osteoporosis, rheumatoid arthritis, cancer induced bone diseases, vascular calcification, diabetes

Measures: Wnt-signalling antagonist Dickkopf-1
Sample type: human serum
Assay time: 3.5 hrs
Sample volume: 20µl / well
Use: research use only
References: 185+ (product specific)

Periostin ELISA

Cat. No. BI-20433



Key areas: bone homeostasis, tissue development and repair
Related diseases: osteoporosis, cancer induced bone diseases, cardiovascular diseases, hypertension, respiratory diseases

Measures: all known isoforms of human Periostin
Sample type: human serum and plasma (EDTA, citrate, heparin), cell culture and urine protocol
Assay time: 5.5 hrs
Sample volume: 10µl / well
Use: research use only
References: 30 (product specific)

Free sRANKL ELISA

Cat. No. BI-20462



Key areas: bone and mineral metabolism, thermoregulation
Related diseases: osteoporosis, diseases with locally increased resorption activity, arthritis, type 2 diabetes, cancer induced bone diseases

Measures: soluble, uncomplexed receptor RANKL (receptor activator of NF-κB)
Sample type: human serum and plasma (EDTA, heparin)
Assay time: overnight assay
Sample volume: 150µl / well
Use: research use only
References: 325+ (product specific)

Osteoprotegerin (OPG) ELISA

Cat. No. BI-20403

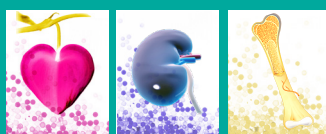


Key areas: bone and mineral metabolism
Related diseases: osteoporosis, arthritis, diseases with locally increased resorption activity, cardiovascular disease, vascular calcification

Measures: monomeric and dimeric Osteoprotegerin
Sample type: human serum and plasma (EDTA, heparin, citrate)
Assay time: 5.5 hrs
Sample volume: 20µl / well
Use: research use only
References: 275+ (product specific)

IL-6 ELISA

Cat. No. BI-IL6



Key areas: inflammation, cancer, cardiology, nephrology, bone metabolism
Related diseases: sepsis, rheumatoid arthritis, systemic juvenile idiopathic arthritis, Castleman's disease, metabolic syndrome, Covid-19

Measures: human IL-6
Sample type: serum, plasma (EDTA, heparin, citrate), cc supernatant, urine
Assay time: 4.5 hrs
Sample volume: 100µl / well
Use: research use only
References: 5 (product specific)

NT-proCNP ELISA

Cat. No. BI-20812



Key areas:	angiogenesis, growth, skeletal development, cardiovascular homeostasis
Related diseases:	cardiovascular disease, renal disorders, sepsis, SIRS, pre-eclampsia
Measures:	NT-proCNP (AA 24-73)
Sample type:	human serum and plasma (EDTA, citrate, heparin), protocol for cell culture supernatant, urine, and non-human samples
Assay time:	4 hrs
Sample volume:	20µl / well
Use:	research use only
References:	55 (product specific)

NT-proANP ELISA

Cat. No. BI-20892



Key areas:	cardiovascular homeostasis, cardiotoxicity in preclinical studies
Related diseases:	cardiovascular disease, heart failure, transplants, sepsis
Measures:	NT-proANP (AA 1-98)
Sample type:	human, rat, mouse, cat and dog serum and plasma (EDTA, citrate, heparin), cell culture supernatant, urine
Assay time:	3.5 hrs
Sample volume:	10µl / well
Use:	research use only
References:	175 (product specific; 14 references: CV safety biomarker in rats)

NT-proBNP ELISA

Cat. No. SK-1204



Key areas:	cardiovascular and renal homeostasis, regulation of fatty acid metabolism
Related diseases:	obesity, diabetes, renal failure, cardiac impairment, acute myocardial infarction, secondary hypertension
Measures:	NT-proBNP (AA 1-76)
Sample type:	human serum and plasma (EDTA)
Assay time:	3.5 hrs
Sample volume:	50µl / well
Use:	research use only
References:	140 (product specific)

NT-proBNP Rat ELISA

Cat. No. BI-1204R



Key areas:	cardiovascular and renal homeostasis, regulation of fatty acid metabolism
Related diseases:	obesity, diabetes, renal failure, cardiac impairment, acute myocardial infarction, secondary hypertension
Measures:	NT-proBNP (AA 1-76)
Sample type:	rat serum and plasma
Assay time:	3.5 hrs
Sample volume:	10µl / well
Use:	research use only
References:	4 (product specific)

BNP fragment ELISA

Cat. No. BI-20852W



Key areas:	cardiovascular homeostasis, renal homeostasis, regulation of fatty acid metabolism
Related diseases:	obesity, diabetes, renal failure, cardiac impairment, acute myocardial infarction, secondary hypertension
Measures:	NT-proBNP (AA 1-76) and all fragments containing AA 8-29 of NT-proBNP
Sample type:	human serum and plasma (EDTA, citrate, heparin)
Assay time:	overnight assay
Sample volume:	30µl / well
Use:	research use only
References:	64 (product specific)

Big Endothelin-1 ELISA

Cat. No. BI-20082H



Key areas: regulation of vascular homeostasis
Related diseases: arterial hypertension and cardiovascular disorders, cardiac hypertrophy, cerebral vasospasm

Measures: Big Endothelin-1 (AA 1-38)
Sample type: human serum and plasma (EDTA, citrate, heparin)
Assay time: 5.5 hrs
Sample volume: 50µl / well
Use: research use only
References: 90 (product specific)

OxyStat Assay

Cat. No. BI-5007



Key areas: oxidative stress, cardiology
Related diseases: cardiovascular diseases

Measures: biological peroxides
Sample type: human serum, EDTA plasma, biological fluids
Assay time: 15 min
Sample volume: 10µl / well
Use: research use only
References: 63 (product specific)

oLAB ELISA (Anti oxidized LDL autoantibodies)

Cat. No. BI-20032

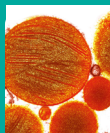


Key areas: oxidative stress, cardiology
Related diseases: cardiovascular diseases

Measures: autoantibodies to oxidized human low density lipoprotein (LDL)
Sample type: human serum
Assay time: 2.5 hrs
Sample volume: 20µl / well
Use: research use only
References: 77 (product specific)

EZ4U (Easy for You) Cell Proliferation & Cytotoxicity Assay

Cat. No. BI-5000



Key areas: cell biology, toxicology and drug screening, safety testing
Related diseases: cancer, immunological disorders, neurogenerative diseases

Measures: cell proliferation and cell toxicity (non-radioactive, non-toxic)
Sample type: cell culture
Assay time: 2-5 hrs, depending on the metabolic capacity of the cells
Sample volume: 200 µl / test
Use: research use only
References: 294 (product specific)



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