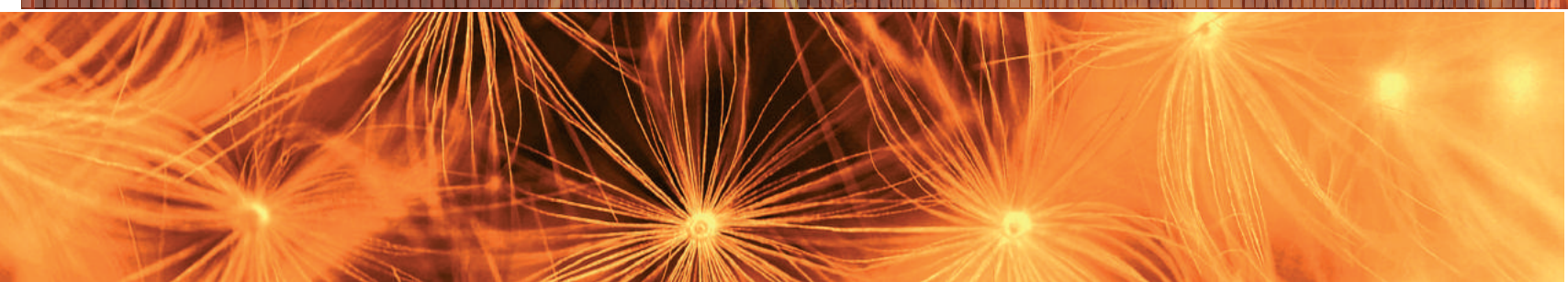




WHEN ACCURACY MATTERS

PRODUCT CATALOG

DIABETES / CARDIOVASCULAR DISEASE / OBESITY



OBTAIN BETTER RESULTS WITH MERCODIA ELISA TECHNOLOGY



OUR VISION

TO IMPROVE HUMAN HEALTH THROUGH THE USE OF
OUR PRODUCTS AND SERVICES BY SCIENTISTS WORLDWIDE

TABLE OF CONTENTS

MERCODIA PRODUCT CATALOG

Superior Measurement Quality..... 4

Our Number One Priority 7

7 Good Reasons to Use Mercodia Immunoassays 9

Human Assays..... 10

Rat/Mouse Assays 16

Animal Assays 20

Assay Supplements 24

Mercodia Bioanalytical Service..... 26

Specificity of Human Diabetes Products 28

Specificity of Rat/Mouse Diabetes Products 30

Specificity of Animal Diabetes Products 32

The History of Mercodia..... 34



SUPERIOR MEASUREMENT QUALITY

IT'S A PROMISE!

We help you achieve better results – faster!

Mercodia is a world-leading developer, manufacturer and distributor of high quality immunoassay kits. We are dedicated to serving the needs of scientists by providing ELISAs of the highest quality and performance within the fields of diabetes, obesity and cardiovascular disease. Merckodia's high quality, easy-to-use products help you perform your experiments with more reliable results in less time.

The importance of reliable results

Mercodia's customers put a lot of time and effort into biomarker measurements. This extensive work involves developing study designs, collecting samples, conducting test validations, establishing controls, monitoring test performance, etc. It is of the greatest importance that the assays used are of the highest quality and give reproducible, reliable results. A high degree of variation in the measurement method and/or an inaccurate method could cause you to under- or overestimate the correlation of a predictor with an outcome, e.g., a disease.

There are two types of confounding factors: those due to biological variations and those due to measurement errors. Since we cannot influence biological variations, at Merckodia we do our best to help reduce any measurement errors that might occur in your laboratory.

Superior reliability with fewer assay errors

Measurement errors can come from a number of sources, the two most common being assay errors and user handling errors. We design and develop our ELISAs to minimize errors from the assay itself by always using monoclonal antibodies to ensure minimal lot-to-lot variation, along with carefully selected components to ensure the highest obtainable assay quality. By providing pre-diluted calibrators and color-coded reagents in a ready-to-use format, we help reduce the contributions from handling errors.

Reliable measurements mean repeatability, optimal precision when running the same sample in the same lab, by the same technician and using the same equipment. Repeatability can only be achieved with well-designed and optimized assays with low intra- and inter-assay variation (%CV).

Reliable measurements also mean reproducibility, optimal precision when running the same sample, with the same assay, but in different laboratories, with different technicians and different equipment. Reproducibility can only be achieved with a robust assay, designed and optimized to be insensitive to variations in instruments and other run conditions. This is where Merckodia plays an important role, by providing you with measurement results that you can trust and helping you save both time and money.

Improve your test performance with monoclonal antibodies

Monoclonal antibodies are used in all Merckodia assays, ensuring long-term production stability with minimal lot-to-lot variation. By using monoclonal antibodies, specific to a single epitope on a single molecule, the sensitivity and specificity can be tailored with a phenomenal increase in assay performance and quality. Selecting only antibodies of the highest specificity and affinity is what gives our assays robustness and low variation. The use of well-defined in-house reference material, always traceable to international reference standards when available, ensures a high degree of reproducibility and accuracy in your measurement results.

We support you

The development and production all take place at the same location, at Merckodia's headquarters in Uppsala, Sweden. This is also where you find the majority of our technical support team. Close collaboration between our internal departments enables us to provide top quality support to our customers and also gives us the flexibility to produce customized immunoassays according to your specific needs. Our research and development team – as well as our technical and scientific advisors – have many ways to aid researchers. With our many years of experience in the research community, we can also assist you with the technical aspects of setting up a project.





Mercodia's founder Erling Holmlund oversees the kit packaging process.

OUR NUMBER ONE PRIORITY

We are dedicated to serving the needs of scientists by providing ELISAs of the highest quality, with excellent performance within the fields of diabetes, obesity and cardiovascular disease.

Prompt answers to your questions

Our sales and technical support teams are available to answer any questions that may arise, whether it be about prices of the products, assay specifications, or questions about the related field of research. During the business week, you can always expect a personal response within 24 hours.

The value of using controls

Routine analysis of controls with known concentrations is a valuable tool for the acceptance of test runs, and for validating that analyzed sample concentrations are in fact repeatable and reproducible in your laboratory. Mercodia can assist you in establishing a control program, with target values and acceptance ranges for your control material.

Mercodia's Quality System

To ensure we deliver top quality immunoassay kits, along with first class support to our customers, Mercodia has a fully developed Quality System, which regulates every step of the development, optimization, validation, production and support processes for all of our products.

The Mercodia Quality System is regulated in the U.S. by 21 CFR Part 820 Quality System Regulation (QSR) and also meets the demands of “Directive 98/79/EC In vitro diagnostic medical devices”, i.e., the European CE mark. In addition, Mercodia holds an ISO 13485 certificate for compliance with the International Quality Management System for Medical Devices. This is a standard specifying the requirements for a quality management system, where an organization needs to demonstrate its ability to provide medical devices and related services that consistently meet customer and regulatory requirements.





YOUR TRUSTED PARTNER IN RESEARCH SINCE 1991

> 5000 peer reviewed publications

7 GOOD REASONS TO USE MERCODIA IMMUNOASSAYS

1. Minimal lot-to-lot variation: More reliable

Mercodia ELISAs are based on stable, monoclonal antibodies. This ensures long-term production with minimal lot-to-lot variation. By the careful selection of top quality reagents, Merck products provide accurate results from the beginning to the end of your study.

2. Robust assays: Consistent test results

The Merck ELISA provides you with a robust assay, designed and optimized to be insensitive to variations in different run conditions. No matter where in the world you conduct your work, Merck helps you achieve consistent results with high repeatability.

3. Easy-to-use: Save time

Mercodia ELISA kits are optimized to be easy-to-use, making them popular among students as well as professionals. Instead of spending an excessive amount of your time on reagent preparations and re-runs, our assays will allow you to focus on the actual research.

4. Less re-runs: Save money

Mercodia ELISA kits are optimized to minimize error contribution from the assay. In addition, pre-defined calibrators and color-coded reagents provided in the kit, help to minimize problems due to handling errors. With a Merck immunoassay, you save time and increase your measurement quality, which will result in less re-runs and save you money.

5. Scientific partnership: Perfect match for your needs

We always work closely with our customers to provide products that are well suited to the users' needs. These collaborations are important for us in our development of new products, as well as when improving or adjusting our current products.

6. Experience and skill: Proven track record

Mercodia products have been used in laboratories in all major markets for over 20 years. From our production facilities in Sweden, we export to customers in more than 100 countries.

7. Certified quality: An excellent choice

When it comes to producing immunoassay kits, few companies have the same experience and expertise as Merck. We develop, manufacture and distribute all of our immunoassays, thus taking control of the entire process from start to finish.

The Quality System at Merck is certified to the ISO 13485 standard. Merck has also implemented practices and procedures complying with other quality system regulations including 21 CFR Part 820 Quality System Regulation.



Human Assays



Catalog No.	Description	Advantages	Format	Assay range	Sample volume
Mercodia Adiponectin ELISA					
10-1193-01	Immunoassay for quantitative determination of human adiponectin.	Measures total adiponectin (hexamers and larger).	1 x 96 wells	5 - 300 ng/mL	25 µL
Mercodia C-peptide ELISA					
10-1136-01	Immunoassay for quantitative determination of human C-peptide.	Calibrated against International Reference Reagent IRR 84/510 for human C-peptide.	1 x 96 wells	100 - 4000 pmol/L (0.302 - 12.1 µg/L)	25 µL
Mercodia Ultrasensitive C-peptide ELISA					
10-1141-01	Immunoassay for quantitative determination of human C-peptide.	Calibrated against International Reference Reagent IRR 84/510 for human C-peptide.	1 x 96 wells	5 - 280 pmol/L (0.015 - 0.85 µg/L)	50 µL
NEW	Mercodia Glicentin ELISA				
10-1273-01	Immunoassay for the quantitative determination of human glicentin.	Highly specific, sensitive and rapid method. Optimized to prevent degradation and aggregation of glicentin.	1 x 96 wells	3 - 300 pmol/L (24 - 2400 pg/mL)	25 µL
NEW	Mercodia Total GLP-1 NL ELISA				
10-1278-01	Immunoassay with chemiluminescent detection for the quantitative determination of amidated GLP-1.	High sensitivity, broad measuring range, low sample volume	1 x 96 wells	0.9 - 940 pmol/L (2.8 - 2900 pg/mL)	25 µL
Mercodia Glucagon ELISA					
10-1271-01	Immunoassay for quantitative determination of glucagon.	Low sample volume, no purification of samples. Validated for human, rat and mouse samples.	1 x 96 wells	1.5 - 130 pmol/L (5 - 453 pg/mL)	25 µL

We design and develop our ELISAs to minimize errors from the assay itself by always using monoclonal antibodies to ensure minimal lot-to-lot variation, along with carefully selected components to ensure the highest obtainable assay quality.

Sensitivity	Specificity	Sample	Incubations (min)
≤ 1.25 ng/mL	No cross-reactivity to C1q or TNF-α.	Serum, plasma	60 + 60 + 15
≤ 25 pmol/L (0.076 µg/L)	Little or no cross-reactivity to insulin or proinsulin.	Serum, plasma, urine	60 + 60 + 15
≤ 2.5 pmol/L (0.0076 µg/L)	Little or no cross-reactivity to insulin or proinsulin.	Serum, plasma, urine	60 + 60 + 30
≤ 3 pmol/L (24 pg/mL)	No cross-reactivity to proglucagon-derived gut peptides.	Serum, EDTA plasma, cell culture medium	120 + 15
≤ 0.65 pmol/L (2.27 pg/mL)	No cross-reactivity to MPGF, oxyntomodulin, glicentin, mini-glucagon, GLP-2 and GRPP.	Stabilized plasma samples	120 + 15
≤ 1 pmol/L (3.49 pg/mL)	Little or no cross-reactivity to oxyntomodulin, glicentin, mini-glucagon, GLP-1, GLP-2 and GRPP.	Serum, EDTA plasma, cell culture medium, P800 stabilized samples	18-22 h + 15

Human Assays cont.

Catalog No.	Description	Advantages	Format	Assay range	Sample volume
Mercodia Insulin ELISA					
10-1113-01 10-1113-10	Immunoassay for quantitative determination of human insulin.	Calibrated against 1st International Reference Preparation 66/304 for human insulin.	1 x 96 wells 10 x 96 wells	3 - 200 mU/L (0.13 - 8.70 µg/L)	25 µL
Mercodia Ultrasensitive Insulin ELISA					
10-1132-01	Immunoassay for quantitative determination of human insulin.	Calibrated against 1st International Reference Preparation 66/304 for human insulin.	1 x 96 wells	0.15 - 20 mU/L (0.0065 - 0.87 µg/L)	25 µL
Mercodia Iso-Insulin ELISA					
10-1128-01	Immunoassay for quantitative determination of insulin and insulin analogs.	Calibrated against 1st International Reference Preparation 66/304 for human insulin.	1 x 96 wells	3 - 100 mU/L (0.13 - 4.35 µg/L)	25 µL
Mercodia Leptin ELISA					
10-1199-01	Immunoassay for quantitative determination of human leptin.	Calibrated against the WHO rDNA-derived Human Leptin 1st International Standard (NIBSC Code 97/594)	1 x 96 wells	0.10 - 5.0 ng/mL	25 µL
Mercodia Lp(a) ELISA					
10-1106-01	Immunoassay for quantitative determination of human lipoprotein(a).	Calibrated against a highly purified, fully validated, commercial Lp(a) preparation.	1 x 96 wells	0.3 - 5.0 U/L	25 µL
Mercodia MPO ELISA					
10-1176-01	Immunoassay for quantitative determination of human MPO (myeloperoxidase).	Calibrated against a highly purified, fully validated, commercially available MPO preparation.	1 x 96 wells	4.0 - 200 µg/L	25 µL

Mercodia's high quality, easy-to-use products help you perform your experiments with more reliable results in less time.

Sensitivity	Specificity	Sample	Incubations (min)
≤ 1 mU/L (0.043 µg/L)	No cross-reactivity to C-peptide or proinsulin.	Serum, plasma	60 + 15
≤ 0.15 mU/L (0.0065 µg/L)	No cross-reactivity to C-peptide or proinsulin.	Serum, plasma	60 + 30
≤ 1 mU/L (0.043 µg/L)	Cross-reactivity with insulin analogs and insulin from a broad range of species including bovine, ovine, porcine, rat and mouse.	Serum, plasma	60 + 15
≤ 0.024 ng/mL	The soluble leptin receptor gives a 50% inhibition of the measured leptin level at receptor concentrations between 30-50 ng/mL.	Serum, plasma	120 + 15
≤ 0.05 U/L	No cross-reactivity to plasminogen or apolipoprotein B.	Serum, plasma	60 + 15
≤ 3 µg/L	No cross-reactivity to TPO, CRP or alpha-1-antitrypsin.	Serum, plasma	60 + 60 + 15



Human Assays cont.

Catalog No.	Description	Advantages	Format	Assay range	Sample volume
Mercodia Oxidized LDL ELISA					
10-1143-01	Immunoassay for quantitative determination of human oxidized LDL.	Sandwich ELISA based on the mouse monoclonal antibody 4E6, which is directed against a conformational epitope in oxidized ApoB-100.	1 x 96 wells	1.4 - 19.0 mU/L (0.42 - 6.75 µg/L)	25 µL
Mercodia Proinsulin ELISA					
10-1118-01	Immunoassay for quantitative determination of human proinsulin.	Calibrated against International Reference Reagent IRR 84/611 for human proinsulin.	1 x 96 wells	3.3 - 132 pmol/L (0.03 - 1.2 µg/L)	50 µL



The Mercodia ELISA provides you with a robust assay, designed and optimized to be insensitive to variations in different run conditions. No matter where in the world you conduct your work, Mercodia helps you achieve consistent results with high repeatability.

Sensitivity	Specificity	Sample	Incubations (min)
≤ 1 mU/L (0.3 µg/L)	Specific for human oxidized LDL.	Serum, plasma	120 + 60 + 15
≤ 1.7 pmol/L (0.015 µg/L)	No cross-reactivity to insulin or C-peptide.	Serum, plasma	60 + 60 + 15



Rat/Mouse Assays

Catalog No.	Description	Advantages	Format	Assay range	Sample volume
Mercodia Rat C-peptide ELISA					
10-1172-01	Immunoassay for quantitative determination of rat C-peptide.	Measures both rat C-peptide I and II.	1 x 96 wells	100 - 4000 pmol/L (0.33 - 13 µg/L)	10 µL
Mercodia Rat Glicentin ELISA					
10-1275-01	Immunoassay for quantitative determination of rat glicentin.	The specificity of monoclonals solving the issue of cross-reactivity to proglucagon-derived gut peptides. Optimized to prevent degradation and aggregation of glicentin.	1 x 96 wells	5 - 500 pmol/L (40 - 4050 pg/mL)	10 µL
Mercodia Glucagon ELISA – 10 µL					
10-1281-01	Immunoassay for quantitative determination of glucagon.	Low sample volume, no purification of samples. Validated for rat, mouse, non-human primate and canine samples.	1 x 96 wells	2 - 180 pmol/L (7 - 627 pg/mL)	10 µL
Mercodia Mouse Insulin ELISA					
10-1247-01 10-1247-10	Immunoassay for quantitative determination of mouse insulin.	Low sample volume. 5 µL protocol available upon request.	1 x 96 wells 10 x 96 wells	0.2 - 6.5 µg/L	10 µL
Mercodia Ultrasensitive Mouse Insulin ELISA					
10-1249-01	Immunoassay for quantitative determination of mouse insulin.	Low measuring range.	1 x 96 wells	0.025 - 1.5 µg/L	25 µL
Mercodia Rat/Mouse Insulin FIA					
10-1248-10	Fluorescent immunoassay for quantitative determination of rat and mouse insulin.	Broad measuring range for large screenings.	10 x 96 wells	0.15 - 100 µg/L	10 µL

The Mercodia ELISA kits are extremely easy to use, making them popular among students as well as professionals. The assays are ready for immediate use. Instead of spending time on reagent preparations, our assays allow you to focus on more challenging tasks.

Sensitivity	Specificity	Sample	Incubations (min)
≤ 100 pmol/L (0.326 µg/L)	No cross-reactivity to insulin. Little or no crossreactivity to proinsulin. No cross-reactivity to human C-peptide.	Serum, EDTA plasma, cell culture media	60 + 60 + 15
≤ 5 pmol/L (40 pg/mL)	Little or no cross-reactivity to proglucagon-derived gut peptides.	Serum, EDTA plasma	18-22 h + 15
≤ 1.5 pmol/L (5.2 pg/mL/)	Little or no cross-reactivity to oxyntomodulin, glicentin, mini-glucagon, GLP-1, GLP2 and GRPP.	Serum, EDTA plasma, P800 stabilized samples	18-22 h + 30
≤ 0.2 µg/L	Cross-reactivity to rat insulin.	Serum, plasma	120 + 15
≤ 0.025 µg/L	Cross-reactivity to rat insulin.	Serum, plasma	120 + 15
≤ 0.15 µg/L	No or insignificant cross-reactivity to rat or mouse C-peptide.	Serum, plasma, cell culture media, perfusion samples	120 + 15



Rat/Mouse Assays cont.

Catalog No.	Description	Advantages	Format	Assay range	Sample volume
Mercodia Rat Insulin ELISA					
10-1250-01 10-1250-10	Immunoassay for quantitative determination of rat insulin.	Low sample volume. 5 mL protocol available upon request.	1 x 96 wells 10 x 96 wells	0.15 - 5.5 µg/L	10 µL
Mercodia High Range Rat Insulin ELISA					
10-1145-01	Immunoassay for quantitative determination of rat insulin.	Broad measuring range.	1 x 96 wells	3 - 150 µg/L	10 µL
Mercodia Ultrasensitive Rat Insulin ELISA					
10-1251-01	Immunoassay for quantitative determination of rat insulin.	Low measuring range.	1 x 96 wells	0.02 - 1.0 µg/L	25 µL
Mercodia Rat/Mouse Proinsulin ELISA					
10-1232-01	Immunoassay for quantitative determination of rat and mouse proinsulin.	Measures rat and mouse proinsulin I and II.	1 x 96 wells	3.5 - 200 pmol/L (33 - 1900 ng/L)	25 µL

All Mercodia ELISAs are based on stable, monoclonal antibodies. This ensures long-term production with minimal lot-to-lot variation. By the careful selection of top quality reagents, Mercodia products provide accurate results from the beginning to the end of your study.

Sensitivity	Specificity	Sample	Incubations (min)
≤ 0.15 µg/L	Cross-reactivity to mouse insulin.	Serum, plasma	120 + 15
≤ 1.5 µg/L	Cross-reactivity to mouse insulin.	Serum, plasma	120 + 15
≤ 0.020 µg/L	Cross-reactivity to mouse insulin.	Serum, plasma	120 + 15

≤ 3 pmol/L (28.5 ng/L)	No cross-reactivity to rat or mouse insulin or C-peptide. No cross-reactivity to human insulin and C-peptide. Little or no cross-reactivity to proinsulin.	Serum, plasma, cell culture media, tissue homogenate	120 + 30
---------------------------	--	--	----------



Animal Assays



Catalog No.	Description	Advantages	Format	Assay range	Sample volume
-------------	-------------	------------	--------	-------------	---------------

Mercodia Porcine C-peptide ELISA

10-1256-01	Immunoassay for quantitative determination of porcine C-peptide.	Sensitive and specific assay for porcine C-peptide.	1 x 96 wells	20 - 1200 pmol/L (0.055 - 3.3 µg/L)	10 µL
------------	--	---	--------------	--	-------

NEW

Mercodia Glucagon ELISA – 10 µL

10-1281-01	Immunoassay for quantitative determination of glucagon.	Low sample volume, no purification of samples. Validated for rat, mouse, and non-human primate.	1 x 96 wells	2 - 180 pmol/L (7 - 627 pg/mL)	10 µL
------------	---	---	--------------	-----------------------------------	-------

Mercodia Bovine Insulin ELISA

10-1201-01	Immunoassay for quantitative determination of bovine insulin.	Specially optimized for bovine samples. Highly specific with overall superior performance characteristics.	1 x 96 wells	0.05 - 3.0 µg/L	25 µL
------------	---	--	--------------	-----------------	-------

Mercodia Canine Insulin ELISA

10-1203-01	Immunoassay for quantitative determination of canine insulin.	Specially optimized for canine samples. Highly specific with overall superior performance characteristics.	1 x 96 wells	0.02 - 1.5 µg/L	25 µL
------------	---	--	--------------	-----------------	-------

Mercodia Ovine Insulin ELISA

10-1202-01	Immunoassay for quantitative determination of ovine insulin.	Specially optimized for ovine samples. Highly specific with overall superior performance characteristics.	1 x 96 wells	0.05 - 3.0 µg/L	25 µL
------------	--	---	--------------	-----------------	-------

Mercodia Porcine Insulin ELISA

10-1200-01	Immunoassay for quantitative determination of porcine insulin.	Specially optimized for porcine samples. Highly specific with overall superior performance characteristics.	1 x 96 wells	0.02 - 1.5 µg/L	25 µL
------------	--	---	--------------	-----------------	-------

We always work closely with our customers to provide products that are well suited to the users' needs. These collaborations are important for us in our development of new products, as well as when improving or adjusting our current products.

Sensitivity	Specificity	Sample	Incubations (min)
≤ 10 pmol/L (0.027 µg/L)	No or insignificant cross-reactivity to human, macaque, rat or mouse C-peptide. No or insignificant cross-reactivity to porcine, human, rat or mouse insulin and proinsulin.	Serum, plasma, cell culture media	120 + 60 + 15
≤ 1.5 pmol/L (5.2 pg/mL)	Little or no cross-reactivity to oxyntomodulin, glicentin, mini-glucagon, GLP-1, GLP2 and GRPP.	Serum, EDTA plasma, P800 stabilized samples	18-22 h + 30
≤ 0.025 µg/L	No cross-reactivity to C-peptide or proinsulin.	Serum, plasma	120 + 15
≤ 0.01 µg/L	No cross-reactivity to C-peptide or proinsulin.	Serum, plasma	120 + 15
≤ 0.025 µg/L	No cross-reactivity to C-peptide or proinsulin.	Serum, plasma	120 + 15
≤ 0.01 ug/L	No cross-reactivity to C-peptide or proinsulin.	Serum, plasma	120 + 15



Animal Assays cont.

Catalog No.	Description	Advantages	Format	Assay range	Sample volume
Mercodia Equine Insulin ELISA					
10-1205-01	Immunoassay for quantitative determination of equine insulin.	Specially optimized for equine samples. Highly specific with overall superior performance characteristics.	1 x 96 wells	0.02 - 1.5 µg/L	25 µL
Mercodia Feline Insulin ELISA					
10-1233-01	Immunoassay for quantitative determination of feline insulin.	Specially optimized for feline samples. Highly specific with overall superior performance characteristics.	1 x 96 wells	10 - 700 ng/L	10 µL



Mercodia products have been used in laboratories in all major markets for more than 20 years. Today we supply our products to scientists in over 100 countries.

Sensitivity	Specificity	Sample	Incubations (min)
≤ 0.01 µg/L	No cross-reactivity to C-peptide or proinsulin.	Serum, plasma	120 + 15
≤ 9.2 ng/L	No cross-reactivity to C-peptide or proinsulin.	Serum, plasma	120 + 30



Assay Supplements



Catalog No.	Description	Note	Usage	Volume
Mercodia Animal Insulin Control – Low, Medium, High				
10-1221-01	3-level control (L, M, H) Manufactured from human serum and insulin.		Controls to be used in porcine, bovine, ovine, canine and equine insulin ELISAs.	3 x 0.5 mL
Mercodia Diabetes Antigen Control – Human Low and High				
10-1164-01	2-level control (L, H) Manufactured from human insulin, C-peptide and proinsulin.	Available internationally. Not available in US.	Controls to be used in human insulin, C-peptide and proinsulin ELISAs.	2 x 0.5 mL
Mercodia Diabetes Antigen Control – Human Low, High (unassayed)				
10-1134-01	2-level control (L, H) Manufactured from human insulin, C-peptide and proinsulin.	Unassayed. Available in US only.	Controls to be used in human insulin, C-peptide and proinsulin ELISAs.	2 x 0.5 mL
Mercodia Diabetes Antigen Control Rat & Mouse, Low, Medium, High				
10-1220-01	3-level control (L, M, H) Manufactured from rat insulin, C-peptide and mouse insulin.		Controls to be used in rat and mouse insulin, rat C-peptide ELISAs.	3 x 0.5 mL
Mercodia Diabetes Sample Buffer				
10-1195-01	Sample dilution buffer		For sample dilution in human insulin, human proinsulin, C-peptide, iso-insulin, rat and mouse insulin, rat C-peptide and animal insulin ELISAs.	1 x 30 mL

At Mercodia, we develop, manufacture and distribute our own immunoassays – thus controlling the process from start to finish. The Quality System at Mercodia is certified to ISO 13485. Mercodia has also implemented practices and procedures with complying with 21 CFR Part 820 Quality System Regulation.

Catalog No.	Description	Note	Usage	Volume
-------------	-------------	------	-------	--------



Mercodia GLP-1 (9-36) amide Control – Low, Medium, High

10-1287-01	3-level control (L, M, H) Manufactured from human serum and GLP-1 (9-36) amide.		Controls to be used in Mercodia Total GLP-1 NL-ELISA.	3 x 0.5 mL
------------	--	--	---	------------

Mercodia Glucagon Control – Low, Medium, High

10-1286-01	3-level control (L, M, H) Manufactured from synthetic glucagon in buffer..		Controls to be used in Glucagon ELISAs.	3 x 0.5 mL
------------	---	--	---	------------

Mercodia Obesity Antigen Control - Human A, B, C

10-1241-01	3-level control (A, B, C) Manufactured from human adiponectin and leptin.		Controls to be used in human adiponectin and leptin ELISAs.	3 x 0.5 mL
------------	--	--	---	------------

MERCODIA BIOANALYTICAL SERVICE

WHAT CAN OUR SERVICES DO FOR YOU?

The Mercodia Bioanalytical Service provides you with the experience, quality and reliability that are fundamental to a productive partnership.

Support

Our experienced team of managers, scientists, technicians and regulatory resources will support you in everything from study design to sample handling. We follow the most recent international guidelines and industry standard white papers for bioanalytical method development and validation.

Our combined expertise will make sure your studies of PK, PD and biomarkers are performed with the highest possible measurement quality, enabling you to make informed decisions based on accurate bioanalytical data. We are highly flexible in the transfer of data in different formats, to meet individual sponsor needs.

Experience

Mercodia's Bioanalytical Service has extensive experience, including regulated bioanalysis, for instance evaluating dosed drugs in samples from preclinical and clinical studies that are part of drug development programs.

Services

- Method development, optimization and validation of assays for PK/PD studies, closely following the most recent international guidelines and industry standard white papers.
- Tech transfer and validation of assays.
- Study design – Our experts support you in everything from idea to data interpretation.
- Validation, qualification and adaptation of commercially available kits.
- High throughput sample analysis (PK, PD and biomarkers) in a GLP-certified laboratory.
- Flexible data management system – Custom-made result reports, delivered straight into your system.





Specificity of human diabetes products

ANTIGEN	MERCODIA C-PEPTIDE ELISA	MERCODIA ULTRASENSITIVE C-PEPTIDE ELISA	MERCODIA GLICENTIN ELISA	MERCODIA TOTAL GLP-1 NL ELISA
C-peptide, human	100	100	**	**
Insulin, bovine	**	**	**	**
Insulin, human	<0.0006	<0.0006	**	**
Insulin, mouse	**	**	**	**
Insulin, ovine	**	**	**	**
Insulin, porcine	**	**	**	**
Insulin, rat	**	**	**	**
Insulin aspart	**	**	**	**
Insulin detemir	**	**	**	**
Insulin glargine	**	**	**	**
Insulin glargine M1	**	**	**	**
Insulin glargine M2	**	**	**	**
Insulin glulisine	**	**	**	**
Insulin lispro	**	**	**	**
Proinsulin, human	2	5	**	**
Proinsulin des (31-32), human***	3	3	**	**
Proinsulin split (32-33), human***	2	2	**	**
Proinsulin des (64-65), human***	74	74	**	**
Proinsulin split (65-66), human	10	10	**	**
IGF-I	**	**	**	**
IGF-II	**	**	**	**
Glicentin, human	**	**	100	n.d.
Glicentin, rat	**	**	0.9	n.d.
Glicentin, mouse	**	**	n.d.	n.d.
GLP-1	**	**	n.d.	100±12
GLP-2	**	**	n.d.	n.d.
Glucagon	**	**	n.d.	n.d.
GRPP	**	**	**	**
Mini-glucagon	**	**	n.d.	n.d.
Oxyntomodulin	**	**	n.d.	n.d.

Figures in %. n.d = not detected. ** For detailed information, please contact Mercodia.

*Glargine, M1 and M2 do not cross-react in the human Mercodia Insulin ELISA when using a sequence protocol. Carlsson A *et al.* (2012) Sequence protocol for Human Insulin ELISA, Technical Note TN34-0143.



MERCODIA GLUCAGON ELISA	MERCODIA INSULIN ELISA	MERCODIA ULTRASENSITIVE INSULIN ELISA	MERCODIA ISO-INSULIN ELISA	MERCODIA PROINSULIN
**	<0.01	<0.01	<0.1	<0.006
**	31	31	58	**
**	100	100	100	**
**	0.3	0.3	49	**
**	48	48	131	**
**	374	374	306	**
**	0.7	0.7	71	**
**	4	3.0	100	**
**	n.d.	n.d.	28	**
**	24	12	58	**
**	**	**	47	**
**	**	**	32	**
**	n.d.	n.d.	123	**
**	n.d.	n.d.	112	**
**	<0.01	<0.01	54	100
**	<0.5	<0.5	58	95
**	<0.5	<0.5	56	95
**	98	98	66	84
**	56	56	78	90
**	<0.02	<0.02	<0.02	**
**	<0.02	<0.02	<0.02	**
0.8	**	**	**	**
**	**	**	**	**
**	**	**	**	**
<0.3	**	**	**	**
<0.3	**	**	**	**
100	**	**	**	**
<0.0005	**	**	**	**
<0.1	**	**	**	**
4.4	**	**	**	**

***Des (64-65) and split (65-66) proinsulin are reported to be the least abundant of the proinsulin-like molecules in circulation (<1 pM to 5 pM). Sobey WJ *et al.* (1989) *Biochem J* 260:535-541. Kahn SE and Halban PA (1997) *Diabetes* 46:1725-1732.

Specificity of rat/mouse diabetes products

ANTIGEN	MERCODIA RAT/MOUSE PROINSULIN ELISA	MERCODIA RAT C-PEPTIDE ELISA	MERCODIA GLUCAGON ELISA – 10 µL	MERCODIA RAT GLICENTIN ELISA	MERCODIA RAT INSULIN ELISA
Mouse C-peptide I	n.d.	6	**	**	n.d.
Mouse C-peptide II	n.d.	<0.003	**	**	n.d.
Mouse insulin	n.d.	<0.6	**	**	75
Mouse proinsulin I	234	<0.003	**	**	33
Mouse proinsulin II	100	0.03	**	**	51
Rat C-peptide I	n.d.	100	**	**	<0.001
Rat C-peptide II	n.d.	76	**	**	<0.001
Rat insulin	n.d.	<0.01	**	**	100
Human Glicentin	**	**	1.0	<1.7	**
Mouse Glicentin	**	**	7.0	5.2	**
GLP-1	**	**	n.d.	n.d.	**
GLP-2	**	**	n.d.	n.d.	**
Glucagon	**	**	100	n.d.	**
Mini-glucagon	**	**	n.d.	n.d.	**
Rat proinsulin I	100	4.6	**	**	7
Rat proinsulin II	145	0.6	**	**	51
Human C-peptide	n.d.	<0.007	**	**	<0.05
Human insulin	n.d.	<0.009	**	**	167
Human proinsulin	0.5	<0.0005	**	**	75
Oxyntomodulin human/rat/mouse	**	**	2	n.d.	**
Rat Glicentin	**	**	4.0	100	**

Figures in %.

**For detailed information, please contact Mercodia.

n.d. = not detected



MERCODIA ULTRASENSITIVE RAT INSULIN ELISA	MERCODIA HIGH RANGE RAT INSULIN ELISA	MERCODIA MOUSE INSULIN ELISA	MERCODIA ULTRASENSITIVE MOUSE INSULIN ELISA	MERCODIA RAT/MOUSE INSULIN FIA
n.d.	n.d.	n.d.	n.d.	n.d.
n.d.	n.d.	n.d.	n.d.	n.d.
75	75	100	100	100
33	33	43	43	33
51	51	60	60	51
<0.03	n.d.	n.d.	n.d.	n.d.
<0.03	n.d.	n.d.	n.d.	n.d.
100	100	146	146	100
**	**	**	**	**
**	**	**	**	**
**	**	**	**	**
**	**	**	**	**
**	**	**	**	**
**	**	**	**	**
8	8	14	14	8
51	51	60	60	51
<0.05	n.d.	n.d.	n.d.	n.d.
167	167	195	195	167
75	75	82	82	75
**	**	**	**	**
**	**	**	**	**

Specificity of **animal** diabetes products

ANTIGEN	MERCODIA PORCINE C-PEPTIDE ELISA	MERCODIA GLUCAGON ELISA – 10 µL	MERCODIA BOVINE INSULIN ELISA
C-peptide, human	<0.003	**	**
C-peptide, macaque	<0.006	**	**
C-peptide, mouse	<0.007	**	**
C-peptide, porcine	100	**	**
C-peptide, rat	0.08	**	**
Insulin, bovine	**	**	100
Insulin, canine	**	**	**
Insulin, equine	**	**	**
Insulin, feline	**	**	**
Insulin, human	**	**	**
Insulin, mouse	<0.13	**	**
Insulin, ovine	**	**	**
Insulin, porcine	<0.05	**	**
Insulin, rat	<0.002	**	**
Insulin aspart	**	**	3.8
Insulin determir	**	**	n.d.
Insulin glargin	**	**	28
Insulin glulisine	**	**	**
Insulin lispro	**	**	n.d.
Vetsulin®, Caninsulin®	**	**	***
Proinsulin, human	<0.01	**	**
Proinsulin, mouse	<0.002	**	**
Proinsulin, porcine	<0.02	**	**
Proinsulin, rat	<0.002	**	**

Figures in %.

*No purified antigen available.

**For detailed information, please contact Mercodia.

***The substances cross-react in the Mercodia Insulin ELISA after administration.

n.d. = not detected



MERCODIA CANINE INSULIN ELISA	MERCODIA EQUINE INSULIN ELISA	MERCODIA FELINE INSULIN ELISA	MERCODIA OVINE INSULIN ELISA	MERCODIA PORCINE INSULIN ELISA
<0.01	<0.01	<0.01	**	<0.01
**	**	**	**	**
**	**	**	**	**
<0.001	<0.001	**	**	<0.001
**	**	**	**	**
7	8	**	**	**
100*	100*	**	**	100*
100*	100*	**	**	100*
**	**	100	**	**
22	22	100	**	22
0.3	**	**	**	0.3
**	**	**	100	**
100	100	**	**	100
0.7	**	**	**	0.7
0.7	0.7	7.4	2.0	0.7
n.d.	n.d.	0.008	n.d.	n.d.
5.4	5.4	10.6	21	5.4
**	**	n.d.	**	**
n.d.	n.d.	n.d.	n.d.	n.d.
***	**	***	**	***
<0.1	<0.1	<0.2	**	<0.1
**	**	**	**	**
<0.2	<0.2	**	**	<0.2
**	**	**	**	**

THE HISTORY OF MERCODIA

Mercodia AB was founded 1991 in Uppsala by Erling Holmlund, a chemist and entrepreneur from Skellefteå in Northern Sweden. Erling's extensive knowledge in the field of immunoassays stems from almost 20 years of experience in development within diabetes and cardiovascular disease at Pharmacia Diagnostics.

Erling has spent his long career perfecting the art of developing immunoassays and has been a mentor for the next generation of product developers at Mercodia. He has now stepped down as CEO of the company, but is the chairman of the board and still comes to the office every day, filling in wherever a helping hand is needed. The family values that have always been so important to Erling are still a strong part of the company culture and have created a very strong sense of loyalty from the employees. Mercodia is today one of the most popular employers in the Swedish biotech industry.

With the stringent quality system inherited from Pharmacia Diagnostics, the initial business concept of Mercodia was to develop high quality ELISA assays for use in human diagnostics. The increased interest from pharmaceutical and academic research for reliable assays that ensure reproducible results created a demand from researchers around the world for Mercodia's products. Erling has always had the firm belief that top quality and user-friendly assays with the best possible technical support will create loyal customers. Combining that with a company spirit of always making sure that both customers and staff are provided with the best possible conditions for success has led to the winning concept of Mercodia.

Today Mercodia is a world-leading developer, bioanalytical service provider, manufacturer and distributor of high quality immunoassay kits, supplying products to all major international markets from our facilities in Uppsala, Sweden. More than ninety percent of our production is exported to approximately 100 countries worldwide.

Mercodia also provides a professional support system and collaborates worldwide with researchers and institutions to develop new products and new applications for emerging markets.

Sustainable and responsible business

Sustainable development is an important pillar in the foundation of Mercodia, and we strive to minimize our environmental footprint as much as possible. In addition to complying with national legislation, as well as social and ethical standards, we always aim to act in a way that has a positive impact on the environment, the community and our customers and employees. For more information about our Corporate Social Responsibility actions, please visit www.mercodia.com.



Contact Mercodia Today

If you have any questions about our products, you are always welcome to give us a call, send us an e-mail or visit us at www.mercodia.com where you find our contact information.

For worldwide distribution, please find our list of distributors at **www.mercodia.com**.

Global Headquarters

Mercodia AB

Phone +46 18 57 00 70

E-mail info@mercodia.com

Sales Office USA

Mercodia Inc

Phone +1 (336) 725-8623

E-mail info_usa@mercodia.com

Sales Office France

Mercodia SAS

Phone +33 6 13 38 4802

E-mail info@mercodia.com

Sales Office Germany

Mercodia AB

Phone +49 176 844 607 58

E-mail info@mercodia.com

