



Insulin assay Guide

Advancing insulin research
with high-precision assays



Which insulin assay should you choose?

Selecting the correct insulin assay is essential for obtaining accurate and reliable results. Whether you are analyzing insulin in plasma, serum, cell culture media, or perfusion samples, having an assay that matches your experimental needs ensures precision in quantification.



Assay selection guide

Find the right assay based on your research needs:

Physiological insulin levels in plasma or serum

The **Insulin ELISA (10-1113-01)** is your go-to choice. Available in a cost-effective 10-pack for high sample volumes.

Sample volume: 25 μ L

Range: 3.0–200 mU/L



Ultra-sensitive insulin detection

Choose the **Ultrasensitive Insulin ELISA (10-1132-01)**. This assay detects insulin levels as low as 0.15 mU/L, making it ideal for studies requiring high sensitivity.

Sample volume: 25 μ L

Range: 0.15–20 mU/L

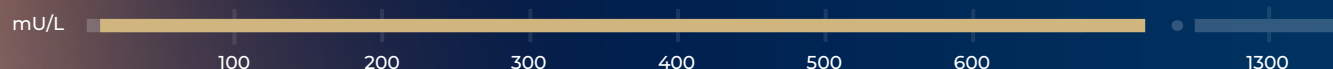


Perfusion or *in vitro* culture samples

The **Insulin MBeads Assay (10-1371-01)** is ideal for volume-limited experiments, as it allows for highly specific human insulin detection with minimal cross-reactivity.

Sample volume: 10 μ L

Range: 6.73–960 mU/L



The **Insulin (Total) MBeads Assay (10-1353-01)** supports both mouse and human samples, optimized for high-throughput analysis.

Sample volume: 5 μ L

Range: 23.3–1302 mU/L



Endogenous and exogenous insulin

The **Iso-Insulin ELISA (10-1128-01)** is ideal for metabolic studies involving insulin therapy.

Sample volume: 25 μ L

Range: 3.0–100 mU/L



Insulin lispro

The **Lispro ELISA (10-1291-01)** provides specific and reliable detection of this fast-acting insulin analog.

Sample volume: 10 μ L

Range: 1.0–500 mU/L



Working with animal samples?

Mercodia provides species-specific insulin assays optimized to reduce matrix effects, ensuring precise quantification in animal studies.

- ✓ Canine, Equine, Porcine, Bovine, and Ovine Insulin ELISAs – Designed for veterinary medicine, livestock management, and metabolic research.
- ✓ Mouse & Rat Insulin ELISAs – Available in standard and ultrasensitive formats for diabetes and metabolic studies.
- ✓ 10-Pack Mouse & Rat Insulin ELISAs – Cost-effective solution for high sample volume studies.

Rat & mouse

Article number	Name	Range	Regulatory status
10-1353-01	Insulin (Total) MBeads Assay	23.3–1302 mU/L	RUO
10-1291-01	Lispro ELISA (rat samples)	1–500 mU/L	RUO
10-1247-01	Mouse Insulin ELISA	0.2–6.5 µg/L	RUO
10-1247-10	Mouse Insulin ELISA – 10 Pack	0.2–6.5 µg/L	RUO
10-1249-01	Mouse (Ultrasensitive) Insulin ELISA	0.025–1.5 µg/L	RUO
10-1250-01	Rat Insulin ELISA	0.15–5.5 µg/L	RUO
10-1250-10	Rat Insulin ELISA – 10 Pack	0.15–5.5 µg/L	RUO
10-1145-01	Rat (High Range) Insulin ELISA	3–150 µg/L	RUO
10-1251-01	Rat (Ultrasensitive) Insulin ELISA	0.02–1.0 µg/L	RUO

Large animal

Article number	Name	Range	Regulatory status
10-1201-01	Bovine Insulin ELISA	0.05–3.0 µg/L	RUO
10-1203-01	Canine Insulin ELISA	2.3–173 mU/L	RUO
10-1205-01	Equine Insulin ELISA	2.3–173 mU/L	RUO
10-1291-01	Lispro ELISA (porcine samples)	1–500 mU/L	RUO
10-1202-01	Ovine Insulin ELISA	0.05–3.0 µg/L	RUO
10-1200-01	Porcine Insulin ELISA	2.3–173 mU/L	RUO

Human

Article number	Name	Range	Regulatory status
10-1113-01	Insulin ELISA	3–200 mU/L	IVD*
10-1113-10	Insulin ELISA – 10 Pack	3–200 mU/L	IVD*
10-1132-01	Insulin (Ultrasensitive) ELISA	0.15–20 mU/L	IVD*
10-1371-01	Insulin MBeads Assay	6.73–960 mU/L	RUO
10-1353-01	Insulin (Total) MBeads Assay	23.3–1302 mU/L	RUO
10-1128-01	Iso-Insulin ELISA	3–100 mU/L	IVD*
10-1291-01	Lispro ELISA	1–500 mU/L	RUO

Controls

Article number	Name	Levels	Regulatory status
10-1164-01	Diabetes Antigen Control – Human	2	IVD†
10-1134-01	Diabetes Antigen Control – Human (Unassayed)	2	IVD‡
10-1220-01	Diabetes Antigen Control – Rat & Mouse	3	RUO
10-1221-01	Insulin Control – Large Animal	3	RUO

*Approved for IVD use in EU/EEA, UK, US, and Canada. RUO elsewhere.

†Approved for IVD use in EU/EEA, UK, and Canada. RUO elsewhere. Not available in the US.

‡Approved for IVD use in the US. Available only in the US.

Why you **choose** Mercodia



HIGH SPECIFICITY & SENSITIVITY

Mercodia assays deliver precise and reliable biomarker measurements with strong reproducibility.



READY-TO-USE REAGENTS & ALTERNATIVE PROTOCOLS

Clear protocols with ready-to-use reagents with no or minimal sample dilution required. Alternative methods are also available to support different research needs.



WELL-KNOWN & WELL-VALIDATED

Used by top research institutions worldwide. Thoroughly tested for precision and reliability.



GREAT TECHNICAL SUPPORT

An experienced support team with hands-on expertise is ready to assist within 24 hours if any questions or issues arise.



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