



# **MBeads Assay Guide**

### Precision assays for accurate insulin measurement

Mercodia Insulin MBeads assays offer a sensitive, high-throughput solution for insulin measurement in low-volume in vitro samples. With a broad dynamic range, the assays enable accurate detection of high insulin concentrations without the need for dilutions. Based on magnetic bead separation technology, our assays are optimized for insulin detection in conditioned media, cell lysates, and perifusion samples.

#### **Broad detection range**

Our MBeads assays use magnetic bead separation technology, featuring surfacequality antibodies. This design provides an extended detection range, allowing concentrations while reducing the need for time-consuming sample dilutions.

#### Perifusion systems

Perifusion systems are widely used to study elucidating islet physiology and media enriched with nutrients, gases, or controlled experimental conditions. Mercodia's MBeads assays are optimized for detecting insulin in conditioned media,



Requires only 5 or 10 µL of sample per well



★ No dilutions needed



Ideal for perifusion and static *in vitro* systems



Enables human-specific or multi-species analysis



Includes a control to ensure assay performance

We developed our MBeads assays to meet the needs of modern research: low sample volumes, high sensitivity, and excellent precision.



## Which MBeads assay fits your needs?

	Insulin MBeads Assay	Insulin (Total) MBeads Assay
Article number	10-1371-01	10-1353-01
	Human	Human and mouse (rat expected)
Cross reactivity	No detected cross-reactivity to insulin analogs and similar molecules	Proinsulin 59 %, mouse insulin 68 %, rat insulin 112 %
Sample types	Perifusion samples, conditioned media, cell lysates, homogenates, and serum	Perifusion samples, conditioned media, cell lysates and homogenates
Sample volume	10 μL	5 µL
	6.73 - 960 mU/L	23.3–1302 mU/L
Incubation time	2 h + 5 min	2 h + 5 min



