



MercoDia Diabetes Antigen Control Rat/Mouse (Low, Medium, High)

Directions for Use

10-1220-01

For Research Use Only

Manufactured by

MercoDia AB
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Sweden

Intended use

Mercodia Diabetes Antigen Control Rat/Mouse (Low, Medium, High) is designed to be used as a two-level control for Mercodia Ultrasensitive Mouse, Ultrasensitive Rat, Mouse and Rat Insulin ELISA kits and Mercodia Rat C-peptide.

It is manufactured from human serum.

For Mercodia assays the control levels are suitable in each method as stated in the table below.

Method	Control		
	Low	Medium	High
Ultrasensitive Mouse Insulin ELISA 10-1249-01	x	x	-
Ultrasensitive Rat Insulin ELISA 10-1251-01	x	x	-
Mouse Insulin ELISA 10-1247-01/10-1247-10	-	x	x
Rat Insulin ELISA 10-1250-01/10-1250-10	-	x	x
Rat C-peptide ELISA 10-1172-01	-	x	x

Reagents

Each Mercodia Diabetes Antigen Control Rat/Mouse (Low, Medium, High) contains 3 vials of lyophilized serum, each containing 0.5 mL after reconstitution. Values are found below.

Preparation of reagents

Reconstitute each Mercodia Diabetes Antigen Control Rat/Mouse (Low, Medium, High) by adding 500 μ L redistilled water to each vial. Replace the rubber stopper and allow to stand for 5 minutes. Gently swirl until contents are thoroughly mixed. Avoid foaming.

Shelf life and storage

The expiry date is stated below. Store the complete package at 2-8°C. Re-constituted Controls are stable for 2 weeks at 2-8°C or three months at -20°C. Avoid repeated freezing and thawing.

Procedure

Perform the Mercodia Insulin ELISA assays (Ultrasensitive Mouse, Ultrasensitive Rat, Mouse and Rat Insulin ELISA) and Rat C-peptide ELISA according to the "Directions for Use", handling Mercodia Diabetes Antigen Control Rat/Mouse (Low, Medium, High) as samples.

Warnings and precautions

This kit contains reagents that may be infectious!

This kit contains reagents manufactured from human blood components. The source of material have been tested by immunoassay for hepatitis B surface antigen, antibodies for hepatitis C virus and for antibodies for HIV virus and found to be negative. Nevertheless, all recommended precautions for the handling of blood derivatives should be observed. Please refer to HHS Publication no. (CDC) 88-8395 or corresponding local/national guidelines on laboratory safety procedures.

- The Control Low (L), Control Medium (M) and Control High (H) contain <0.06% 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1).

The Controls are labeled:



Warning

H317 – May cause an allergic skin reaction.

P280 – Wear protective gloves.

P261 – Avoid breathing vapour.

P272 – Contaminated work clothing should not be allowed out of the workplace.

P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 – If skin irritation or rash occurs: Get medical attention.

P501 – Dispose of contents and container in accordance with all local, regional, national and international regulations.

Table of values

The concentrations of the control values were determined in 4 replicates per run, on a minimum of 10 occasions, performed on at least 2 days by at least 2 technicians.

The range is determined as: target value \pm 3 SD.

Control Low	Lot No.: 31953	Exp.date: 2024-01-31		
	Target value	Range	Units	
Ultrasensitive Mouse Insulin ELISA 10-1249-01	0.074	0.041 - 0.107	$\mu\text{g/L}$	
Ultrasensitive Rat Insulin ELISA 10-1251-01	0.053	0.037 - 0.069	$\mu\text{g/L}$	

Control Medium	Lot No.: 31954	Exp.date: 2024-01-31		
	Target value	Range	Units	
Ultrasensitive Mouse Insulin ELISA 10-1249-01	0.712	0.520 - 0.904	$\mu\text{g/L}$	
Ultrasensitive Rat Insulin ELISA 10-1251-01	0.515	0.422 - 0.608	$\mu\text{g/L}$	
Mouse Insulin ELISA 10-1247-01/10-1247-10	0.693	0.506 - 0.880	$\mu\text{g/L}$	
Rat Insulin ELISA 10-1250-01/10-1250-10	0.380	0.266 - 0.494	$\mu\text{g/L}$	
Rat C-peptide ELISA 10-1172-01	345	293 - 397	pmol/L	

Control High	Lot No.: 31955	Exp.date: 2024-01-31		
	Target value	Range	Units	
Mouse Insulin ELISA 10-1247-01/10-1247-10	3.97	3.02 - 4.92	µg/L	
Rat Insulin ELISA 10-1250-01/10-1250-10	2.75	2.42 - 3.08	µg/L	
Rat C-peptide ELISA 10-1172-01	2060	1750 - 2370	pmol/L	

Determinations performed at Mercodia AB.

The values given are only applicable to the lot number and the expiry date mentioned in the table and to assays manufactured by Mercodia AB. If used with other methods, different values may be obtained.




Good practice dictates that each laboratory establishes its own expected range of values.

Warranty

The performance data presented here was obtained using the procedure indicated. Any change or modification in the procedure not recommended by Mercodia AB may affect the results, in which event Mercodia AB disclaims all warranties expressed, implied or statutory, including the implied warranty of merchantability and fitness for use.

Mercodia AB and its authorized distributors, in such event, shall not be liable for damages indirect or consequential.

Explanation of symbols used on labels

	Expiry date
	Store between 2-8°C
	Lot No.

For technical support please contact: support@mercodia.com