Medix Biochemica

Anti-h C-peptide 9103 SPRN-5

Product overview				
Catalog number	100114			
Specificity	Antibody recognizes human C-peptide			
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components.			
Product buffer solution	37 mM citrate, 125 mM phosphate, pH 6.0, 0.9 % NaCl, 0.095 % NaN $_{\rm 3}$ as a preservative			
Shelf life and storage	24 months from manufacturing at 2–8 °C			
Subclass	lgG1			
Analyte description	C-peptide is produced when proinsulin is split into insulin and C-peptide. They split before proinsulin is released from endocytic vesicles within the pancreas - one C-peptide for each insulin molecule. When a patient has newly diagnosed type 1 or type 2 diabetes, C-peptide can be used to help determine how much insulin the patient's pancreas is still producing. C- peptide measurements also can be used in conjunction with insulin and glucose levels to help diagnose the cause of documented hypoglycemia and to monitor its treatment.			
Parameters tested on each lot				
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Parameters tested on eachers Product appearance	ch lot Liquid, may turn slightly opaque during storage			
Product appearance	Liquid, may turn slightly opaque during storage			
Product appearance Product concentration	Liquid, may turn slightly opaque during storage 5.0 mg/ml (+/- 10 %)			
Product appearance Product concentration Immunoreactivity	Liquid, may turn slightly opaque during storage 5.0 mg/ml (+/- 10 %) 80–120 % compared to the reference sample in an FIA test			
Product appearance Product concentration Immunoreactivity IEF Profile	Liquid, may turn slightly opaque during storage 5.0 mg/ml (+/- 10 %) 80–120 % compared to the reference sample in an FIA test 6.5–7.6			
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Product appearance Product concentration Immunoreactivity IEF Profile Purity Kinetic parameters	Liquid, may turn slightly opaque during storage 5.0 mg/ml (+/- 10 %) 80–120 % compared to the reference sample in an FIA test 6.5–7.6 ≥ 95 %			
Product appearance Product concentration Immunoreactivity IEF Profile Purity <u>Kinetic parameters</u> Association rate constant	Liquid, may turn slightly opaque during storage 5.0 mg/ml (+/- 10 %) 80–120 % compared to the reference sample in an FIA test 6.5–7.6 ≥ 95 % Not Determined (N/D)			
Product appearance Product concentration Immunoreactivity IEF Profile Purity Kinetic parameters Association rate constant Dissociation rate constant	Liquid, may turn slightly opaque during storage 5.0 mg/ml (+/- 10 %) 80–120 % compared to the reference sample in an FIA test 6.5–7.6 ≥ 95 % Not Determined (N/D) N/D			



Oy Medix Biochemica Ab Klovinpellontie 3, FI-02180 Espoo, Finland medix@medixbiochemica.com www.medixbiochemica.com VAT reg. no. FI14631532

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Cross-reactivities

Pair recommendations

Epitope

Human proinsulin (recombinant) 18 % (Sigma, Cat P4672, Lot 5740974)

The binding site is located within the range 4-19, with the most critical amino acids being DL (4-5).

		DETECTION	
		9101	9103
CAPTURE	9101	-	+
	9103	-	-

Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

Platforms tested	FIA		
Antigens tested	N/D		
Product stability	TEMPERATURE, TIME -70 °C, 21 days -20 °C, 21 days +4 °C, 21 days +25 °C, 21 days +35 °C, 7 days +35 °C, 21 days +45 °C, 3 days +45 °C, 7 days	RESULT Reduced immunoreactivity Reduced homogeneity OK OK OK Reduced immunoreactivity Reduced immunoreactivity Reduced immunoreactivity	
Miscellaneous	temperatures affect the antigen bind antibody. Please note that the shelf	ility testing is performed in the product buffer to see whether different beratures affect the antigen binding, charge or composition of the body. Please note that the shelf life given on the first page is based on time stability testing at 2–8 °C in the product buffer.	

References



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