CERTIFICATE OF ANALYSIS

CTS™ VITRONECTIN (VTN-N Catalog Number: Lot Number: Manufacturing Date: Expiry Date: CoA Issue No.:) RECOMBINANT HUMAN PROTEIN IN PARTNERSHIP WITH CDI™ CTS279S3 D1-012211C 2022-11-03 2025-10-24 497
Volume:	1 mL
Storage temperature:	-70 ± 10 °C

Composition: 20 mM K₂HPO₄ 20 mM KH₂PO₄ pH 7.40 (NaOH),135 mM NaCl,15 mM KCl, 0.5 mM EDTA,150 mM L-Arginine, 250 mM Acetyl-L-cysteine, 20% (v/v) Glycerol, DNA-free WMB

For Research Use or Manufacturing of Cell, Gene, or Tissue-Based Products. CAUTION: Not intended for direct administration into humans or animals.

Testing is listed in alphabetical order

PARAMETER	SPECIFICATION	RESULT	UNIT	
¹ Biological activity	Concentration of Test sample at which half maximal attachment of BALB/3T3 cells in serum-free medium			
	is observed (ED₅₀) ≤1.000 µg/ml	0.641	µg/ml	
	Ratio of ED₅₀ values between IRS and Test samples: 55.00-145.00 %	101.24	%	
² Color and clarity	Color: not more intense than Y6 (Yellow palette) Clarity: <30 NTU	Conforms 3	NTU	
³ Concentration	0.81-0.99 mg/ml	0.91	mg/ml	-
⁴ Endotoxins	< 25 EU/mg protein	Conforms		_
⁵Host cell gDNA	<100.00 pg/mg (LOQ – 12 pg/mg)	< LOQ	(LOQ – 12	— pg/mg
⁶ Identity by RP-HPLC	The intact protein chromatographic profiles of the Sample solution are similar to those of the IRS	Conforms		
⁷ Identity by SDS-PAGE	Main band of the test sample corresponds to position of the main band of IRS (≈55 kDa)	Conforms		
⁸ Mycoplasmas	<lod (lod="" 10="" cfu="" ml)<="" td="" –=""><td>Conforms</td><td></td><td></td></lod>	Conforms		
⁹ pH	7.4 (7.0 – 7.8)	7.4		
¹⁰ Purity by RP-HPLC	> 95.0 %	98.6	%	_
¹¹ Sterility	No growth	Conforms		

Rev. No. 05 Thermo Fisher Scientific Baltics UAB

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CERTIFICATE OF ANALYSIS

CTS™ VITRONECTIN (VTN-N) RECOMBINANT HUMAN PROTEIN IN PARTNERSHIP WITH CDI™
Catalog Number:Catalog Number:CTS279S3Lot Number:D1-012211CManufacturing Date:2022-11-03Expiry Date:2025-10-24CoA Issue No.:497Lot No. D1-012211C is approved

CoA is issued by

Quality Assurance/Department Signature Date 2023 Magouanorau Signature Date Quality Assurance Manager

CoA is verified and approved by

REFERENCES:

¹Biological activity: Thermo Fisher Scientific Baltics, In-house method.

<u>²Color and clarity:</u> Color. acc. Ph. Eur. 2.2.2. Degree of coloration of liquids. Method I. Clarity: acc. Ph. Eur. 2.2.1. Clarity and degree of opalescence of liquids", Instrumental method.

³Concentration, ⁶Identity, ¹⁰Purity: Thermo Fisher Scientific Baltics, In-house method.

<u>⁴Endotoxin testing:</u> USP <85> Bacterial Endotoxins and Ph. Eur. 2.6.14. Bacterial endotoxins. Method A. Gelclot method: limit test.

⁵Host cell gDNA: Contract Laboratory, In-house method.

⁷Identity by SDS-PAGE: Thermo Fisher Scientific Baltics, In-house method.

⁸Mycoplasmas: Contract Laboratory, In-house method.

⁹pH: USP <791> pH and Ph. Eur. 2.2.3. Potentiometric determination of pH.

¹¹Sterility: Contract Laboratory, Ph. Eur. 2.6.1. Sterility and USP/NF <71> Sterility Test.

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