

**Product Specifications**
**matripure<sup>®</sup>**
**Cosmetics-grade soluble elastin**
*INCI: HYDROLYZED ELASTIN*

 Product No.: KA1A  
 Source: Porcine

 Version 1.5 as of January 30<sup>th</sup>, 2026

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**1. Identity**

Parameter	Specification	Method
Protein content	≥ 90 %	Kjeldahl (Nx6.25)
Desmosine <sup>1)</sup>	≥ 0.5 wt%	Amino acid analysis
Isodesmosine <sup>1)</sup>	≥ 0.5 wt%	Amino acid analysis
Elastin content in protein fraction <sup>1)</sup>	≥ 90 %	HPLC-MS/MS, Spectral counting

**2. Physical and Chemical Properties**

Parameter	Specification	Method
Appearance	Powder	Organoleptic
Color	Yellowish to orange to brownish	Organoleptic
Odor	Odorless to faint	Organoleptic
Water content	≤ 10 wt%	LOD: 10 g, 105 °C, 1 h
Active water (a <sub>w</sub> )	< 0.6	Sensor measurement
Conductivity	< 1 mS/cm	Conductivity electrode, 1 wt% solution
Mean molecular weight (M <sub>w</sub> )	10-30 kDa	SEC, SDS-PAGE
pH	6-8	pH electrode: 1 wt% solution
Clarity of solution	FIO <sup>2)</sup> , batch-specific	Transmission (600 nm), 1 wt% solution

**3. Microbiological Analysis**

Parameter	Specification	Method
Total Aerobic Mesophilic Microorganisms	≤ 100 CFU/g	ISO 17516:2014-10
Total Aerobic Mesophilic Bacteria	≤ 100 CFU/g	ISO 21149
Yeast and Mold	≤ 100 CFU/g	ISO 16212
Salmonella	Absence/25g	ISO 6579
Pseudomonas aeruginosa	Absence/1g	ISO 18415:2022-08
Staphylococcus aureus	Absence/1g	ISO 18415:2022-08
Escherichia coli	Absence/1g	ISO 18415:2022-08
Candida albicans	Absence/1g	ISO 18415:2022-08

**4. Heavy Metal Analysis**

Parameter	Specification	Method
Arsenic (As)	≤ 1 mg/kg (ppm)	ICP-MS
Antimony (Sb)	≤ 1 mg/kg (ppm)	ICP-MS
Cadmium (Cd)	≤ 1 mg/kg (ppm)	ICP-MS
Lead (Pb)	≤ 1 mg/kg (ppm)	ICP-MS
Mercury (Hg)	≤ 1 mg/kg (ppm)	ICP-MS

1) This parameter is monitored through periodic validation and is not part of routine batch release testing.

2) For information only. Parameter measured per batch but not part of specification.