



matripure®

Cosmetic-grade hydrolyzed elastin
 INCI: HYDROLYZED ELASTIN



Product Specifications

Product No.: KA1A
 Source: Porcine

Version 2.1
 Ver. date: June 1, 2026

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1. Identity

Parameter	Specification	Method
Protein content	≥ 90 %	Kjeldahl (Nx6.25)
Desmosine ¹⁾	≥ 0.5 wt%	Amino acid analysis
Isodesmosine ¹⁾	≥ 0.5 wt%	Amino acid analysis
Elastin content (of total protein) ¹⁾	≥ 90 %	HPLC-MS/MS

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%	Loss on drying (10 g, 105 °C, 1 h)
Active water (a _w)	< 0.6	Sensor measurement
Conductivity	< 1 mS/cm	Conductivity electrode, 1 wt% solution
Mean molecular weight (M _w)	10-30 kDa	SEC, SDS-PAGE
pH	6-8	pH electrode, 1 wt% solution
Clarity of solution	FIO ²⁾ , 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
Specified microorganisms <i>P. aeruginosa</i> , <i>E. coli</i> , <i>S. aureus</i> , <i>C. albicans</i>	Absence/1 g	ISO 18415:2022-08
Salmonella	Absence/25 g	ISO 6579-1

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

5. INCI Declaration

Parameter	Specification	Method	INCI Name	Percentage	Function
			Hydrolyzed Elastin	100 %	Cosmetic Ingredient

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

2) For information only. This parameter is measured per batch but not part of specification.