Arcofeliz™ Series: Low-Endotoxin Biomaterials

The Arcofeliz™ Series is a line of low-endotoxin biomaterials manufactured using a proprietary purification process with an advanced endotoxin-removal technology. *(non-GMP)*

Biomaterials Products

Source	Product number	Grade	Specifications	
Sodium Alginate	Arcofeliz™ AL-SH1050	800 ~ 1100 mPA•s *	Viscosity	Defined by the product number
	Arcofeliz™ AL-H600	500 ~ 700 mPA•s *	pH	6.0 ~ 8.0
	Arcofeliz™ AL-M400	300 ~ 500 mPA•s *	Endotoxin level	≤30 EU/g
	Arcofeliz™ AL-L200	100 ~ 300 mPA•s *	Viable count	≤100 CFU/g
Pullulan	Arcofeliz™ PU-10	None	Japanese Pharmacopoeia	Reference
			Endotoxin level	≤10 EU/g
			Viable count	≤100 CFU/g
Xanthan gum	Arcofeliz™ XA-100	None	Endotoxin level	≤100 EU/g
			Viable count	≤100 CFU/g
Gelatin	Arcofeliz™ GE-PA10	Type A, from porcine skin	Japanese Pharmacopoeia	Reference
	Arcofeliz™ GE-PB10	Type B, from porcine bone	Gel strength	≥250 g
	Arcofeliz™ GE-FA10	Type A, from fish	Endotoxin level	≤10 EU/g
			Viable count	≤100 CFU/g
Collagen Peptide	Arcofeliz™ CP-P50	None	Endotoxin level	≤50 EU/g
			Viable count	≤100 CFU/g

Intended uses	Raw materials for implantable medical devices, regenerative medicines, cell culture base materials and pharmaceutical raw materials

Safety test data		
	Cytotoxicity	Negative
	Acute Toxicity Test	Negative

* 1% Viscosity

For more information about our Advanced Endotoxin Removal Solutions and detailed product data, please contact us or access the catalog through the URL or by scanning the QR code.

nagase.com/products/gelling-agents

Nagase & Co., Ltd. Corporate site

nagase.co.jp/english/

NAGASE
Delivering next.

Development & Manufacturing
Nagase ChemteX Corporation
Biomaterials Sec. Product Development Div. Functional Materials Dept.
Tatsunocho-nakai, 236, Tatsuno, Hyogo, 679-4124 JAPAN Tel : +81-791-63-9085 | NCX_Biomaterial@ncx.nagase.co.jp

Sales & Media Inquiries
Nagase & Co., Ltd.
NVI 2nd Sec. Product Management Div. Life & Healthcare Products Dept.
Tokiwabashi Tower, 2-6-4, Otemachi, Chiyoda-ku, Tokyo, 100-8142 JAPAN Tel: +81-3-3665-3864 | DN900377@nagase.co.jp

NAGASE's Low-Endotoxin Biomaterials

Endotoxin Removal Challenges

- **Inactivation:** Harsh heat or strong acids/alkalis can degrade sensitive materials, reducing product integrity.
- **Distillation & Filtration:** Effective only in water-based media; clogging occurs easily in viscous formulations.
- **Adsorption:** Offers selectivity but is too expensive for large-scale or routine applications.

Result: There is a growing demand for technologies that are simple, efficient, and broadly applicable across diverse targets.

The NAGASE Solution

- **High-capacity cellulose fiber carriers** provide several times greater adsorption performance compared to conventional technologies.
- **Optimized ligand design** ensures selective and reliable endotoxin removal across a wide range of protein solutions, including challenging acidic proteins.

	Conventional Methods	NAGASE Technology
Absorption Capacity	Low / Limited	**Several times higher**
Selectivity	Limited	**Broad, including acidic proteins**
Practicality	Restricted scope	**Simple, efficient, widely applicable**

Why choose the Arcofeliz™ Series?

- **Low-Endotoxin Specification:** Manufactured using NAGASE's proprietary purification process with specialized endotoxin-removal materials.
- **Comprehensive Portfolio:** Wide range of biomaterials including gelatin, collagen peptide, sodium alginate, pullulan, xanthan gum, and more. (Alternative biomaterials can be provided upon request.)
- **Proven Safety:** Safety confirmed with negative cytotoxicity and acute toxicity results per the Japanese Pharmacopoeia; compliance with other global regulatory standards available upon request.
- **Broad Application Range:** A reliable choice for regenerative medicine, cell culture, pharmaceuticals, and medical devices.

For more information about our Advanced Endotoxin Removal Solutions and detailed product data, please contact us or access the catalog through the URL or by scanning the QR code.

nagase.com/products/gelling-agents

Nagase & Co., Ltd. Corporate site

nagase.co.jp/english/

NAGASE
Delivering next.

Development & Manufacturing
Nagase ChemteX Corporation
Biomaterials Sec. Product Development Div. Functional Materials Dept.
Tatsunocho-nakai, 236, Tatsuno, Hyogo, 679-4124 JAPAN Tel : +81-791-63-9085 | NCX_Biomaterial@ncx.nagase.co.jp

Sales & Media Inquiries
Nagase & Co., Ltd.
NVI 2nd Sec. Product Management Div. Life & Healthcare Products Dept.
Tokiwabashi Tower, 2-6-4, Otemachi, Chiyoda-ku, Tokyo, 100-8142 JAPAN Tel: +81-3-3665-3864 | DN900377@nagase.co.jp