

# Arcofeliz™ series: Low-Endotoxin Biomaterials

Arcofeliz™ series is a line of low-endotoxin biomaterials manufactured using a proprietary purification process with an advanced endotoxin-removal technology. (ISO-9001)

	Product name	Grade	Specifications	
Sodium Alginate	ARCOFELIZ AL-ST1000	800~1100 mPa s	Viscosity pH Endotoxin Bioburden	For each grade 6.0 ~ 8.0 ≤30 EU/g ≤100 CFU/g
	ARCOFELIZ AL-ST600	500~700 mPa s		
	ARCOFELIZ AL-ST400	300~500 mPa s		
	ARCOFELIZ AL-ST200	100~300 mPa s		
	ARCOFELIZ AL-ST20	10~50 mPa s		
Pullulan	ARCOFELIZ PU-10	None	JP* Endotoxin Bioburden	Reference ≤10 EU/g ≤100 CFU/g
Xanthan gum	ARCOFELIZ XA-10	None	Endotoxin Bioburden	≤100 EU/g ≤100 CFU/g

- **Arcofeliz™ Series:** High-quality biomaterials manufactured using NAGASE's proprietary technology.
- **Manufacturing:** Produced using a unique purification process and specialized endotoxin removal materials.
- **Line up:** A wide range of materials including 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; compliance with global regulatory standards is available upon request.
- **Broad Application Range:** A reliable choice for regenerative medicine, cell culture, pharmaceuticals, and me-dical devices.

For more information/Contact: Detailed product data and catalogs are available on our website ([nagase.com/products/gelling-agents](http://nagase.com/products/gelling-agents)) or by scanning the QR code.



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# Endotoxin Removal Column

NEA-1000R is an endotoxin removal column for testing and research, which is filled with a newly developed endotoxin removal material. Selectively remove endotoxins from various materials such as proteins and polysaccharides.

- Highly selectively remove endotoxin
- Absorb large volumes of endotoxin
- Easy to operate



Packaging	1 mL column x 5
Base carrier	Cellulose fiber
Endotoxin adsorption capacity	$1.0 \times 10^7$ EU/column
Sterilization	EOG Sterilization
Storage Method	Refrigeration

## Usage examples

### Endotoxin removal from proteins

Sample	Isoelectric point	Before treatment	After treatment	Endotoxin removal rate	Protein recovery rate
BSA	4.9	30 EU/ml	0.1 EU/ml	$\geq 99\%$	98 %
Gamma globulin	7.4	41 EU/ml	0.5 EU/ml	$\geq 99\%$	$\geq 99\%$
Cytochrome C	10.6	27 EU/ml	0.1 EU/ml	$\geq 99\%$	96 %

Test conditions : protein solution (500 $\mu$ g/mL, 0.02M phosphate buffer, pH7.0, ionic strength $\mu$  = 0.2), LPS(*E.coli* UKT-B), flow rate 0.1 mL/min

### Endotoxin removal from polysaccharides

Sample	Before treatment	After treatment	Endotoxin removal rate
Pullulan	30 EU/ml	0.1 EU/ml	$\geq 99\%$

Test conditions : 4% aqueous solution, flow rate 0.1 mL /min