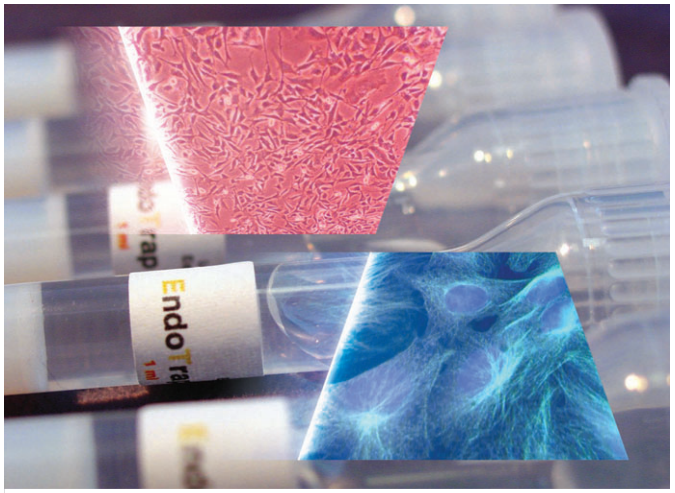
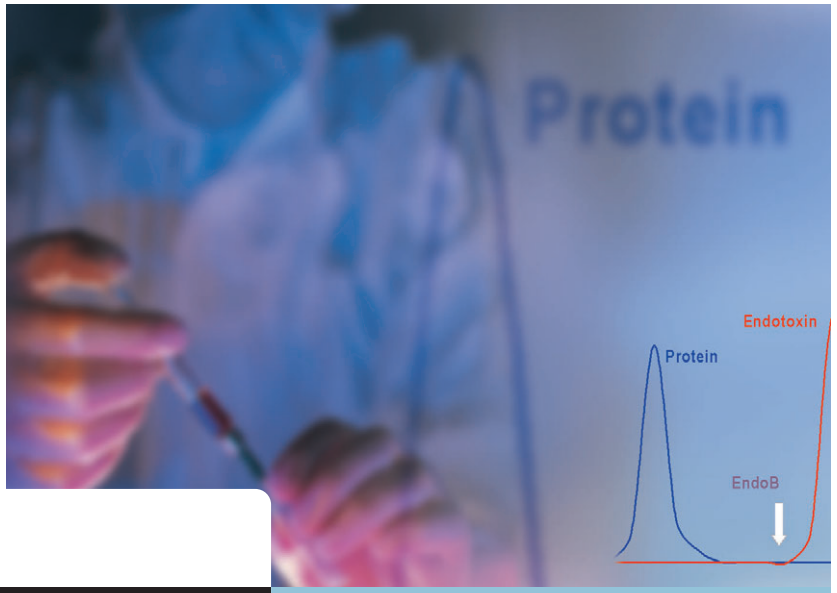
profos

08.05
product information

Removal of endotoxins for *in-vitro* and *in-vivo* applications





EndoTrap®-family

EndoTrap® reliably removes endotoxins from solutions without additional incubation and with the highest protein recovery rate. In this way it greatly assists you in avoiding artifacts and misinterpretation caused by endotoxin contamination when performing your highly sensitive stimulation experiments in cell culture or animal models. The EndoTrap® -family consists of the two products EndoTrap® blue and EndoTrap® red and is customized to serve your specific requirements.

Features and advantages:

Efficiency
- Over 99% endotoxin removal per cycle
- Very high binding capacity (2 Mio. EU/ml)

Highest protein recovery
- Over 90% average protein recovery

Reliability
- Both systems EndoTrap® blue and EndoTrap® red are widely independent from pH, ion strength, type of substance and temperature

Endotoxin (LPS) variability
- Removal of endotoxins originating from a broad range of bacterial species

Reusable
- Several times reusable without any loss of binding capacity

High performance affinity chromatography

Application:

In less than 15 min, it is that easy

1. Activation of the EndoTrap® column:
   6ml washing buffer → less than 12 min
2. Endotoxin removal step:
   Apply sample onto column, collect flow-through containing your target substance depleted from endotoxins;
   1-50ml sample volume → less than 2 min/ml
3. Regeneration of the EndoTrap® column:
   6ml regeneration buffer → less than 12 min
4. Store or repeat protocol step 1-3

All buffers are supplied!

Individual applications
- Ready to use column system or economical batch procedure (e.g. industrial application) possible by usage of bulk resin

Regeneration without Deoxycholate (DOC)!
- No cytotoxic or haemolytic effects on cell culture and animal models
- No DNA damage

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Technical Data and Specifications

Characteristics	EndoTrap® blue system	EndoTrap® red system
Column dimensions	0.2 to 10 ml (prepacked columns 1ml)	0.2 to 10 ml (prepacked columns 1ml)
Ligand	**EndoTrap® blue**	**EndoTrap® red**
Binding capacity	Approx. 2 Mio. EU/ml	Approx. 2 Mio. EU/ml
Mean particle size	90 μm	90 μm
Bead structure	Highly cross-linked 4% agarose, spherical	Highly cross-linked 4% agarose, spherical
Temperature stability regular use	4°C to room temperature	4°C to room temperature
pH stability regular use	4 - 9	6 - 9
Buffer compatibilities	**e.g. HEPES, MOPS, TRIS, PIPES buffer**	**e.g. PBS, MOPS, TRIS, HEPES buffer**
Tested substances	**Proteins, peptides, antibodies, plasmid DNA**	**Proteins, peptides, antibodies**

Order Information

Product	Contents	EndoTrap® blue Cat.No.	EndoTrap® red Cat.No.
EndoTrap® 1/1	1 x 1ml column, ready to use, equilibration buffer, regeneration buffer	311053	321053
EndoTrap® 5/1	5 x 1 ml colums, ready to use, equilibration buffer, regeneration buffer	311063	321063
EndoTrap® 10	20 ml resin (50% slurry), equilibration buffer, regeneration buffer	311064	321064
EndoTrap® 50	100 ml resin (50% slurry), equilibration buffer, regeneration buffer	311075	321075
EndoTrap® 100	200 ml resin (50% slurry), equilibration buffer, regeneration buffer	311065	321065
EndoTrap® bulk	Bulk resin for industrial applications	311066	321066
Equilibration buffer	125 ml (endotoxin concentration <0.02 EU/ml)	311108	321081
Regeneration buffer	125 ml (endotoxin concentration <0.02 EU/ml)	311067	321080

Literature:
1. J Allergy Clin Immunol. 2003 Apr; 111(4): 777-83. Endotoxin content of standardized allergen vaccin. **Trivedi B, Valerio C, Slater JE**
2. J Biol Chem. 2003 Oct 24; 278(43): 42361-8. Endotoxin contamination of ovalbumin supresses murine immunologic responses and development of airway hyper-reactivity. **Watanabe J et al.**
3. J Biol Chem 2003 Jan 3; 278(1): 174-9. Endotoxin contamination in recombinant human heat shock protein 70 (Hsp 70) preparation is responsible for the induction of tumour necrosis factor alpha release by murine macrophages. **Gao B, Tsan M**
4. The Journal of Immunology, 2000; 165:618-622. Cutting edge: repurification of lipopolysaccharide eliminates signaling trough both human and murine toll-like receptor. **Hirschfeld M et al.**
5. Toxicology. 2000 Nov 2; 152(1-3): 37-45. Induction of proliferation and cytokine production in human T lymphocytes by lipopolysaccaride (LPS). **Ulmer AJ, Flad H, Rietschel T, Mattern T**

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