

ToxOut™ High Capacity Endotoxin Removal Regeneration Buffer

01/16

(Store at 4°C; Do not freeze)

Cat. No.

7945-50 ToxOut™ High Capacity Endotoxin Removal Regeneration Buffer, 10 ml x 5 vials

I. Introduction:

Endotoxin is the lipopolysaccharide (LPS) complex located in the outer membrane of gram-negative bacteria. During experimental procedures, large amount of endotoxins are shed and can easily contaminate labware, buffers and downstream products. Therefore, it is critical to remove endotoxin from samples and products.

ToxOut™ High Capacity Endotoxin Removal Regeneration Buffer is the endotoxin-free regeneration buffer containing sodium hydroxide and ethanol. It is specially designed for regenerating BioVision's ToxOut™ High Capacity Endotoxin Removal Agarose, which effectively reduce endotoxins to < 0.05 EU/mL in solutions containing proteins or pharmacologically important components.

II. Applications:

- Regenerate ToxOut™ High Capacity Endotoxin Removal Agarose (Cat. No. 7942-5)
- Regenerate spin columns in ToxOut™ High Capacity Endotoxin Removal Kit (Cat. No. K2502-5)

III. Contents:

0.2 N NaOH and 95% Ethanol in ToxOut™ Endotoxin-free water (Cat. No. 7938 -50). Endotoxin-free level is ≤0.05 EU/ml.

IV. Storage and Handling:

- Store at 4°C. Do not freeze.
- ToxOut™ Endotoxin-free buffers expire 2 months after opening.
- Handle endotoxin free buffer with extra caution to prevent endotoxin contamination from dust, solution or dirty labware.
- Read entire protocol before performing the experiment.

V. Protocol for using ToxOut™ Rapid Endotoxin Removal Regeneration Buffer:**Notes:**

- ToxOut™ High Capacity Endotoxin Removal Spin Column and ToxOut™ High Capacity Endotoxin Removal Agarose must be regenerated by ToxOut™ High Capacity Endotoxin Removal Regeneration Buffer before each use, **including first use**.
- *Quick Spin* means to centrifuge the spin column <150 × g for 10 seconds.

A. Procedure for ToxOut™ High Capacity Endotoxin Removal Agarose:

1. Pack the appropriately sized column with ToxOut™ High Capacity Endotoxin Removal Agarose
2. Close the column by a stopper. Regenerate the resin by incubating with 5 resin-bed volumes of ToxOut™ High Capacity Endotoxin Removal **Regeneration Buffer** with gentle end-over-end mixing at room temperature for 1~2 hours.
3. Wash the resin with 3-5 resin-bed volumes of ToxOut™ High Capacity Endotoxin Removal **Wash Buffer**.
4. Proceed with the Endotoxin Removal Protocol of ToxOut™ High Capacity Endotoxin Removal Agarose.

B. Procedure for spin columns in ToxOut™ Rapid Endotoxin Removal Kit:

1. Place a spin column in a new ToxOut™ Endotoxin-free Collection Tube. *Quick Spin* to remove the storage solution. Discard the solution.
2. Add 0.5 ml ToxOut™ Endotoxin-free Water and invert the column 3 times. *Quick Spin* to remove the solution. Discard the solution.
3. Close the column with the bottom plug. Regenerate the column by adding 0.5 ml ToxOut™ High Capacity Endotoxin Removal **Regeneration Buffer**. Incubate the column with gentle end-over-end mixing at room temperature for 1~2 hours.
4. Loosen the cap and remove the bottom plug. *Quick Spin* to remove the solution. Discard the solution.
5. Add 0.5 ml ToxOut™ High Capacity Endotoxin Removal **Wash Buffer** and invert the column 3 times. *Quick Spin* to remove the solution. Discard the solution.
6. Repeat Step 5 once.
7. Proceed with the Endotoxin Removal Protocol of ToxOut™ High Capacity Endotoxin Removal Kit.

VI. Related Products:

ToxOut™ Rapid Endotoxin Removal Kit (Cat. No. K2501-5)
ToxOut™ Rapid Endotoxin Removal Agarose (Cat. No. 7941-5)
ToxOut™ High Capacity Endotoxin Removal Kit (Cat. No. K2502-5)
ToxOut™ High Capacity Endotoxin Removal Agarose (Cat. No. 7942-5)
ToxOut™ High Capacity Endotoxin Removal Wash Buffer (Cat No. 7946-50)
ToxOut™ Endotoxin Removal Equilibration Buffer (Cat No. 7940 -50)
ToxOut™ Endotoxin-free Collection Tube, 2.0 ml (Cat. No. 7937-50)
ToxOut™ Endotoxin-free Water (Cat. No. 7938-50)
ToxOut™ Endotoxin-free PBS (Cat. No. 7943-50)
ToxOut™ Endotoxin-free Glass Vials (Cat. No. 7944-2, -10)

FOR RESEARCH USE ONLY! Not to be used on humans.

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