Cellufine ET-clean L

ET clean L can easy to remove LPS from buffers.

ET clean L easily reduces LPS to low concentrations compared with polymyxin-immobilized agarose gel or DEAE Cellufine A-500(anion-exchanger).

Method & Materials

Column : 9mm I.D. x 100mm
Pump : Peristaltic with silicon tube
Buffer : 1M sodium phosphate, pH 7.0 (spiked 2.6 EU/ml LPS)

LPS Removal (pre-washing)
Column & media: wash with 5CV 0.2 M NaOH; let stand for 16 hours, then wash with endotoxin-free water.
Silicon tubing: wash with 0.5 M NaOH, let stand for 16 hours, then wash with endotoxin-free water.
※If 0.2 M NaOH-95% EtOH is used, pre-washing time may be beshortened to 1 to 3 hours.

ChromatographyFlow rate : 30ml/h [Residence time 12.8min; linear velocity 47cm/h]
Fraction 6.36ml (total 128 tubes)

Assay
LAL (rate assay, EndospecyES-50M Set; SEIKAGAKU CORPORATION)

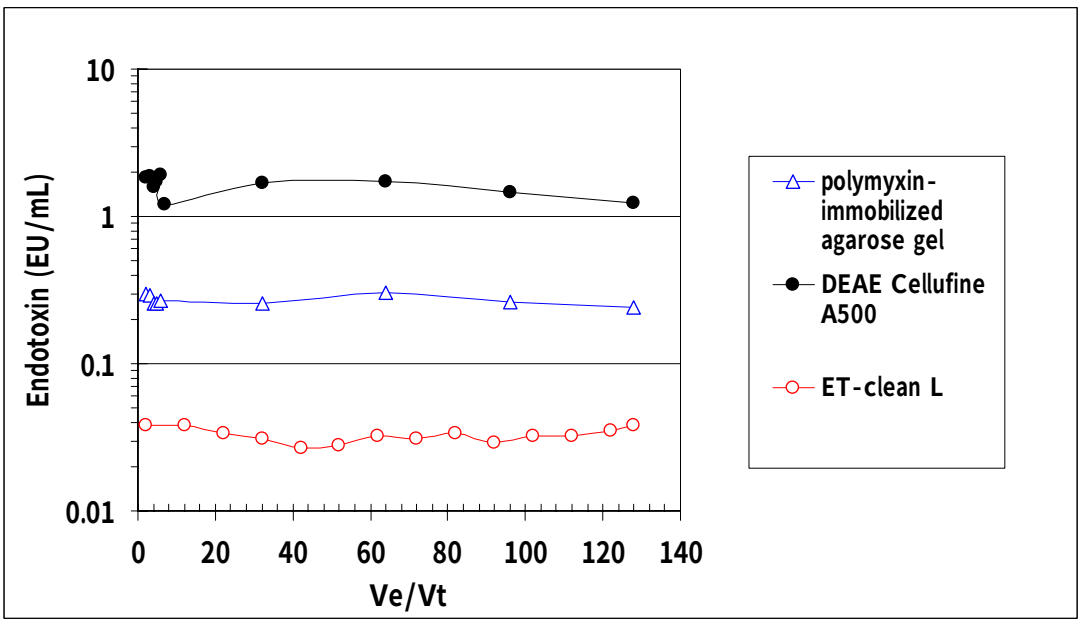

Fig.1 Comparison of the LPS removal capability from 1M phosphate buffer of ET-clean L, and polymyxin-immobilized agarose gel and DEAE Cellufine A500.