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ProductInformation

OLIGO (dT)-CELLULOSE
Molecular Biology Reagent

Product No. **O 3131**
Store at – 20 °C

Product Profile
Binding Capacity: Minimum 40 A_{260} units polyadenylic acid/gram
RNase: None detected

RNase
25 mg of oligo (dT)-cellulose was added to 250 µl of 30 mM Trizma®-HCl, pH 7.8, 50 mM NaCl, and 10 mM $MgCl_2$ (1X MISS) and allowed to stand overnight at 4 °C. After centrifuging at 10,000 rpm for 10 seconds in a microcentrifuge, 25 µl of the supernate was added to 25 µl of 1X MISS containing 2 µg tRNA and incubated 16 hours at 37 °C. No degradation of the tRNA was detected by polyacrylamide gel electrophoresis. Detection limit: Degradation of 10% of the tRNA substrate is detectable.

Binding Capacity
4 ml of a 0.25-0.3 mg/ml (approx 5-6 A_{260} units/ml) solution of polyadenylic acid (Product No. P 9403) in binding buffer (0.5 M NaCl, 0.01 M Trizma®-HCl, pH 7.5) was added to 200 mg of oligo (dT)-cellulose. The slurry was agitated for 2 hours at 0 °C and transferred to a column. The oligo (dT)-cellulose column was washed with binding buffer until the fractions read <0.05 A_{260} units/ml. The bound polyadenylic acid was eluted with elution buffer (0.01 M Trizma®-HCl, pH 7.5) until the fractions read <0.05 A_{260} units/ml.

Binding Capacity = (Total A_{260} units in polyadenylic acid solution – Total A_{260} units in wash fractions) / 0.2 g oligo (dT)-cellulose.

% Eluted = [(Total A_{260} units of eluted polyadenylic acid / 0.2 g oligo (dT)-cellulose) X 100] / Binding Capacity

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