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## Product Information

### AMMONIUM PERSULFATE CAPSULES Molecular Biology Reagent

Product No. **A 3426**

#### Preparation Instructions

Empty contents of one capsule in 10 ml of deionized water and dissolve. This will yield a 1.5% (w/v) solution of ammonium persulfate. Note: Do not attempt to dissolve gel capsule in ammonium persulfate solution. This may interfere with electrophoresis.

#### Storage

Store at room temperature. Moisture sensitive

#### Product Profile

Ammonium persulfate (Product No. A 9164), packed in gelatin capsules, 150 mg/capsule  
Mol. Wt. 228.2  
Purity: Minimum 98%  
Chloride and chlorate (as Cl): #10 ppm  
Iron (Fe): #10 ppm  
Heavy metals (as Pb): #50 ppm  
DNase, RNase, protease: None detected

#### Endonuclease-exonuclease

One  $\mu\text{g}$  of  $\lambda$  Hind III fragments was incubated for 16 hours at 37 °C with ammonium persulfate at a final concentration of 0.08% (w/v) in a 50  $\mu\text{l}$  reaction mixture containing 30 mM Trizma<sup>®</sup>-HCl, pH 7.8, 50 mM NaCl and 10 mM MgCl<sub>2</sub>. No degradation of the DNA fragments

was detected by agarose gel electrophoresis. Detection limit: Degradation of 10% of the DNA substrate is detectable.

#### RNase

Two  $\mu\text{g}$  of transfer RNA were incubated with ammonium persulfate at a final concentration of 0.08% (w/v) in a 50  $\mu\text{l}$  reaction mixture containing 30 mM Trizma<sup>®</sup>-HCl, pH 7.8, 50 mM NaCl and 10 mM MgCl<sub>2</sub> for 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.

#### Protease

0.5% FITC-Casein was incubated with ammonium persulfate at a final concentration of 1.6% (w/v) in a 50  $\mu\text{l}$  reaction mixture for 1 hour at 37 °C. Liberated FITC equivalents are quantitated fluorometrically.

Detection limit:  $8.5 \times 10^{-6}$   $\mu\text{moles}$  of FITC released per minute.

Modified from: Twining, S.S., Analytical Biochemistry, **143**, 30-34 (1984)

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