

A-9164 Lot 10H-0522-15
AMMONIUM PERSULFATE

Mol. Wt. 228.2

PRODUCT SUMMARY

Purity: 99.2%
Heavy metals (as Pb): < 50 ppm
Fe: 2 ppm
Cl: < 10 ppm
DNase, RNase, Protease: None detected

COMMENTS

OXIDIZING CORROSIVE
Contact with combustible material may cause fire. Causes burns. Harmful by inhalation, in contact with skin and if swallowed.

For laboratory use only.
Not for drug, household or other uses.

ENDONUCLEASE-EXONUCLEASE

One µg of λ Hind III fragments was incubated for 16 hours at 37° C with ammonium persulfate at a final concentration of 0.08% in a 50 µl reaction mixture containing 30 mM Tris-HCl, pH 7.8, 50 mM NaCl and 10 mM MgCl₂. 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 µg of transfer RNA were incubated with ammonium persulfate at a final concentration of 0.08% in a 50 µl reaction mixture containing 30 mM Tris-HCl, pH 7.8, 50 mM NaCl and 10 mM MgCl₂ 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 0.015% in a 50 µl reaction mixture for 1 hour at 37°C. Liberated FITC equivalents are quantitated fluorometrically. Detection limit: 8.5 X 10⁻⁶ µmoles of FITC released per minute.

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