

RNase A

from bovine pancreas(EC 3.1.27.5).

RNase A hydrolyses ribonucleic acid forming 3'-terminal pyrimidine nucleoside phosphate with intermediary formation of pyrimidine nucleoside -2'3'-cyclophosphate.

RNase A is a chromatographically homogenous preparation from bovine pancreas and is supplied as white salt free powder

Mol-Wt.: 13700

stability: store dry 4°C
no considerable loss of activity after 12 month

purity: (loss on drying: 8%)
SDS polyacrylamide gel electrophoresis
(12% acrylamide/ 2.5% bis-acrylamide)
with 50µg RNase A : lane reveals 1 single band

specific activity: > 90 U/mg (according to Kunitz)*1
0.5 mg/ml ribonucleic acid from yeast in 50mM acetate buffer pH5.0;
immediate measurement at 300nm after mixing/final concentration of RNase A 0.5µg/ml

foreign activities:

DNase not detectable

(33µg/ml DNA and 100µg/ml RNaseA in acetate buffer, pH 5.0; D A 260nm)*2

tryptic activity not detectable

(3.3 x 10⁻³M N-benzoyl-L-arginine-4-nitroanilide hydrochloride and 100µg/ml RNase A in 0.3M phosphate buffer, pH8.0; D A 405nm)*3

Literature:

1. Kunitz, M (1946) J.Biol. Chem. 164, 563-568
2. Kunitz, M. (1950) J.Gen Physiol. 33, 349
3. Schwert, G.W. and Takenaka, Y. (1955), Biochim. Biophys. Acta 16, 570

Order information:

RNase A (90 Kunitz-U/mg):

RIBA25 RNaseA 25mg

RIBA10 RNaseA 100mg

Only for scientific purposes.