

PRODUCT INFORMATION

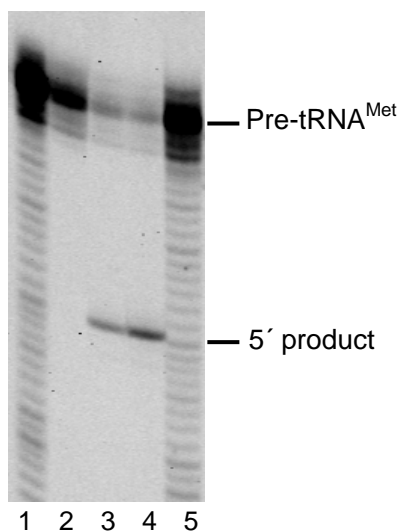
Product Name : *Thermotoga maritima* tRNase Z
Code No. : DE120
Size : 100 units (1 unit/μl)
Storage: Store at -20°C
Source: *E. coli* harboring the plasmid encoding the gene of tRNase Z from *Thermotoga maritima*.
Storage buffer: 25mM Na-phosphate buffer (pH 7.0)
 25mM NaCl
 5mM 2-mercaptoethanol
 2.5mM MgCl₂
 50% glycerol

This product is research use only

Description : RNase from *Thermotoga maritima* that can generate the 3'-terminal CCA of tRNA by removing a 3' trailer from pre-tRNA.

Minagawa *et al.*, Journal of Biological Chemistry, **279** (2004) 15688

Unit definition: One unit is defined as the amount required to process 1 pmole pre-tRNA in 1 minute at 60°C in the buffer containing 8 mM Na-phosphate buffer (pH7.0), 8 mM NaCl, 10 mM MgCl₂ and 1.7 mM DTT.



- 1 and 5: alkaline ladder
- 2: input pre-tRNA (25 pmol)
- 3: product after a 10-min reaction with 1 unit of tRNase Z
- 4: product after a 10-min reaction with 2 units of tRNase Z

