

# ReverTra Ace

(MMLV Reverse Transcriptase RNaseH<sup>-</sup>)

Code No. TRT-

Lot No. \*\*\*\*\*

Storage Store at -20°C

Size 10,000units(101) 50,000units(102)

Source : *Escherichia coli* DH5 (pDV68)

Concentration : 100 units/μl

Unit Definition : One unit is the amount of enzyme activity that incorporates 1 nmole of dTTP into acid insoluble fraction in 10 minutes at 42°C when poly(A)<sup>+</sup> RNA and oligo (dT)<sub>20</sub> are used as template-primer.

Assay Condition : 50 mM Tris-HCl(pH8.3)  
75 mM KCl  
3 mM MgCl<sub>2</sub>  
10 mM DTT  
240 μg/ml poly(A)<sup>+</sup> RNA  
0.1 μM oligo (dT)<sub>20</sub>  
1 mM dTTP  
0.3 μM [methyl-<sup>3</sup>H]dTTP

Storage Buffer : 20 mM Tris-HCl(pH7.5)  
100 mM NaCl  
0.1 mM EDTA  
10 mM 2-mercaptoethanol  
0.01 % NP-40  
50 % Glycerol

5 X Buffer : Not containing dNTPs. cDNA synthesis reaction requires 1mM of dNTPs.

Quality Control

1. RNase Activity : When 50 units of this enzyme were incubated with 0.5 μg of MS2 RNA for 1 hour at 42°C, RNase activity was not observed after agarose gel electrophoresis.

Remarks Research Use Only. Not for Human Use.