

DATA SHEET

Version: 2
Revision date: 13/03/2023

1. Identification

Product name	Vaccinia Capping System
Cat. No	(10U/ μ L) 400U EZ0050

2. Description

Vaccinia Capping System is a kit that provides the required components to catalyze the addition of 7-methylguanylate cap structures (Cap 0) to the 5' end of RNA. Vaccinia Capping Enzyme (VCE) is produced in *Escherichia coli*.

3. Protein information

Purity	\geq 95% as determined by SDS-polyacrylamide gels with Coomassie® blue staining.
Storage Buffer	100 mM NaCl, 20 mM Tris-HCl (pH 8.0), 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol, 0.1 % Triton®X-100
Biological activity	One unit of Vaccinia Capping Enzyme is defined as the amount of enzyme required to incorporate 10 pmol of (α 32P) GTP into an 80 nt transcript in 1 hour at 37°C.

4. Composition

Item	Concentration	Quantity
Vaccinia Capping Enzyme	10U/ μ L	40uL
Capping Buffer	10X	100uL
GTP	10mM	50uL
SAM	32mM	100uL

5. Storage specifications

Store at -20°C. Avoid exposure to constant temperature changes.

6. Applications

- Labeling 5' end of mRNA.
- Capping mRNA prior to translation assays/in vitro translation.

7. Further information

Product Use Limitations	This product is developed, designed and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.
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