

Double-stranded RNA (dsRNA) ELISA Kit

Driving New Standards in mRNA Vaccine Quality Control

- **High Antibody Specificity** - Self-sourced antibody pairs only recognize dsRNA, with no cross-reactivity to other nucleic acids.
- **High Sensitivity** - Featuring a detection limit as low as 0.001 pg/μL.
- **Diverse Standards** - Multiple modified standards (e.g., N1-Me-pUTP) enable precise quantification of a wide range of modified samples.
- **Robust Quality** - Optimized ELISA system via methodological validation, with strict QC procedures ensuring accurate measurement.

This kit uses a double antibody sandwich method combined with a biotin-streptavidin system to quantify double-stranded RNA (dsRNA) levels in samples. It detects dsRNA that is 60 bp or longer, regardless of nucleic acid sequence.

High Sensitivity

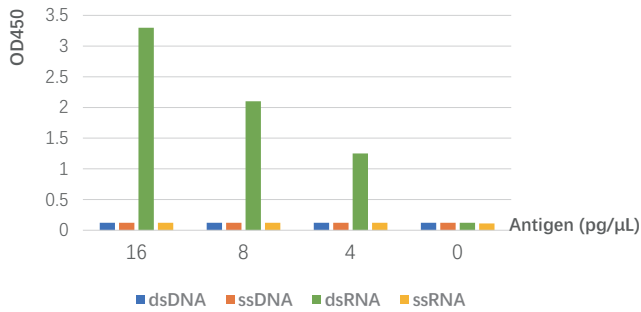
Featuring four distinct modified standards for accurate detection of samples with different modification types.

Standard(s)	Lower limit of detection (LOD)	Lower limit of quantitation (LOQ)
N1-Me-pUTP	≤ 0.001 pg/μL	0.0312 pg/μL
UTP	≤ 0.001 pg/μL	0.0156 pg/μL
pUTP	≤ 0.001 pg/μL	0.0156 pg/μL
5-OMe-UTP	≤ 0.01 pg/μL	0.0625 pg/μL

Double-stranded RNA (dsRNA) ELISA Kit

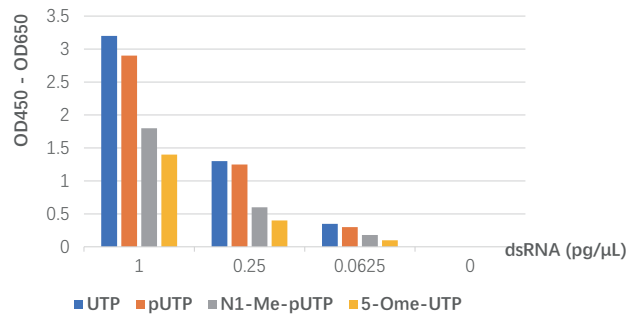
High Specificity

No cross-reactivity with other types of nucleic acids such as ssRNA, ssDNA, and dsDNA.



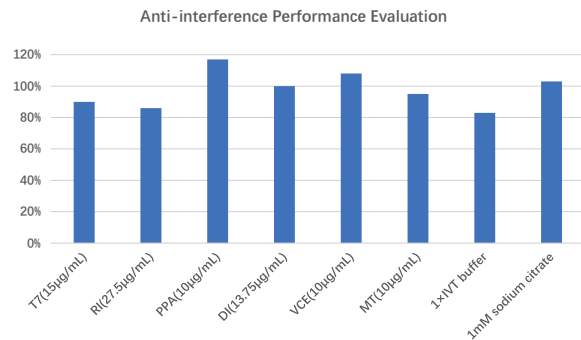
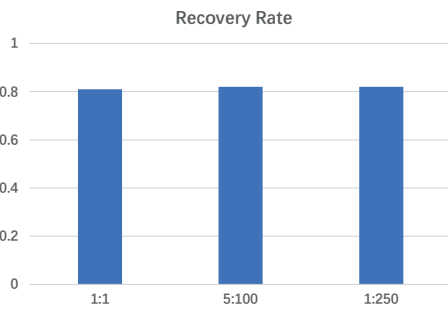
Universal

Identification of different types of modified dsRNA.



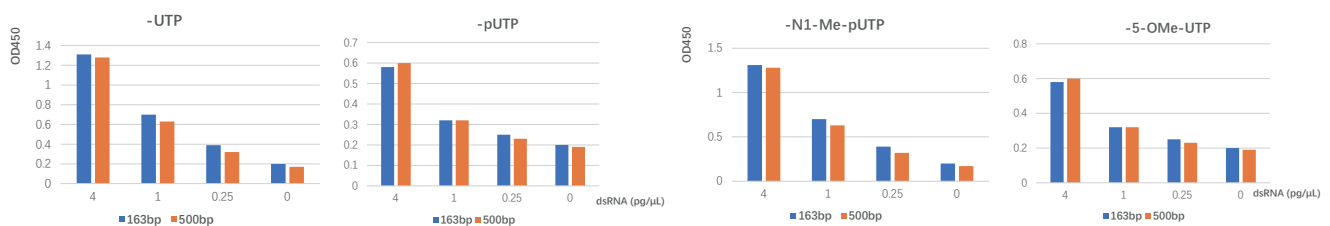
High Accuracy & Repeatability

CV <10% with spike recovery in the range of 80% -120% in the commonly used enzyme and ion systems for adding IVT.



Length/Sequence Consistency

Antibody recognition of same - type modified dsRNA is unaffected by length/sequence.



Cat. No.	Product Name	Size
DEIA-BZ002P	Double-stranded RNA (dsRNA) ELISA Kit	96T