

# Certificate of Analysis

## Cod Uracil DNA Glycosylase (cUNG)

Product Number: 4000  
Lot Number: 221212PB  
Assay Date: 01/23  
Expiration Date: 01/25  
Storage Temperature: 4 °C  
Storage Buffer: 50% glycerol, 50 mM Tris-HCl, 50 mM KCl, 1 mM DTT, 0.1 mM EDTA, 0.1% Tween-20, pH 7.5  
Specification Version: DM-cUNG-v2.0

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**Warning:** This product is distributed for laboratory research use only. **Caution: Not for diagnostic use.** The safety and efficacy of this product in diagnostic or other clinical uses has not been established.

**Unit Activity:** A known cUNG is used to create a standard curve with a real-time molecular beacon assay against which the activity of this enzyme is measured.

**Physical Purity:** Purified to > 95% homogeneity as determined by SDS-PAGE analysis using Coomassie Blue detection.

**DNase contamination:** A fluorescent probe-based detection kit is used to test for DNase contamination.  
Specification: Below the lower limit of detection ( $1 \times 10^{-4}$  U DNase I activity) in >5 Units for 25 minutes at 37 °C.

**RNase contamination:** A fluorescent probe-based detection kit is used to test for RNase contamination.  
Specification: Below the lower limit of detection (2 pg RNase A activity) in >5 Units for 25 minutes at 37 °C.

**DNA contamination:** A nucleic acid stain-based kit is used to quantify contaminating DNA.  
Specification: <0.005 ng/Unit.

Product meets all specifications.

SIGNATURE:



Date: Jan 18, 2023