

## CERTIFICATE OF ANALYSIS

**Catalog #:** 6076 **Lot #:** M43421022

**Description:** Rubella Grade IV Antigen

**Viral Strain:** HPV77

**Source:** Grown in VERO Cells  
Product manufactured in the United States using only domestic animal materials processed in U.S. facilities.

**Format:** Purified, Liquid **Exp. Date:** 29 AUG 2027  
Gradient purification

**Protein Concentration:** BCA Assay: Acceptable Range:  $\geq 0.250$  mg/mL **DOM:** 29 AUG 2022  
Testing Results: 0.295 mg/mL  
OD 260/280nm Assay: Acceptable Range: 0.45 – 0.60 mg/mL  
Testing Results: 0.55 mg/mL

**Activity:** ELISA Assay: Reference Lot Number: M37879020  
Testing Results: Midpoint Titer (test antigen): 175.733  
Acceptable Range: -15% - +50% of Reference Antigen % of Reference: +14.51 %  
Testing Results: Midpoint Titer (reference antigen): 153.463  
Background ELISA Ratio: Acceptable  $\leq 2$  Test Result: 1  
Sensitivity/Specificity Negative Control: Acceptable To Report Test Result: 1  
Sensitivity/Specificity Medium Positive Control: Acceptable  $\geq 3$  Test Result: 13  
Sensitivity/Specificity High Positive Control: Acceptable  $\geq 8$  Test Result: 20

**Buffer:** 10 mM Tris, 150 mM Sodium Chloride, 1.0 mM EDTA, pH 8.0 – 8.4

**Preservative:** None

**Storage:** Store at  $\leq -65^{\circ}\text{C}$ . Avoid multiple freeze/thaw cycles

**Inactivation:** Product inactivated by UV irradiation and verified by Infectivity Testing (Plaque Assay)  
Acceptable Range: 0 PFU/mL Testing Results: 0 PFU/mL

**Usage Notes:** Recommend sonication using Microprobe set to 10% Amplitude. Apply 3 – 1 second pulses with sample on ice.

**Applications:** Each laboratory should determine an optimum working titer for use in its particular application

**Safety Note(s):** Refer to the appropriate Safety Data Sheet (SDS) for additional information

Quality Signature:



30 SEP 2022

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**