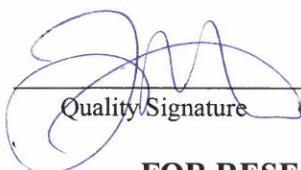


CERTIFICATE OF ANALYSIS

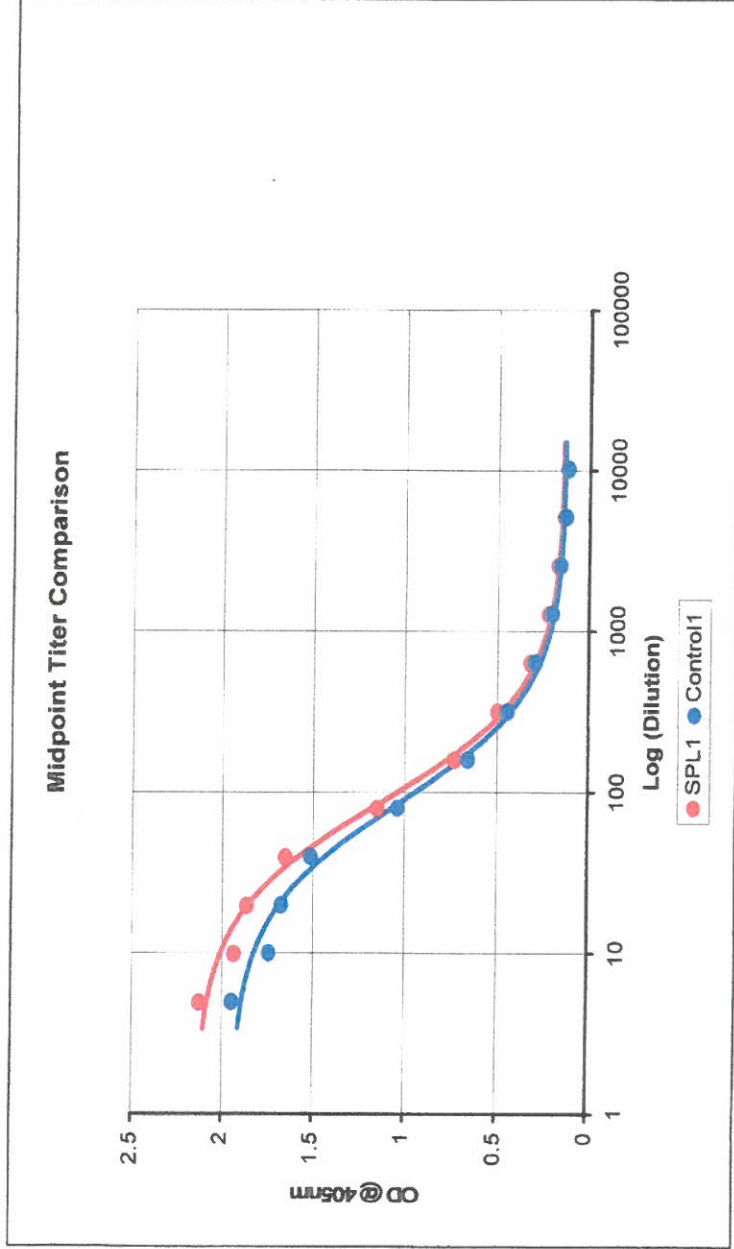
Catalog #:	7305	Lot #	M38538021
Description:	HSV-1 Antigen		
Viral Strain:	F (ATCC)		
Source:	Grown in Vero Cells Product manufactured in the United States using only domestic animal materials processed in U.S. facilities.		
Format:	Liquid	Exp. Date:	04 NOV 2025
Protein Concentration:	OD 260/280nm Assay: Acceptable Range: 0.25 – 0.35 mg/mL Testing Results: 0.25 mg/mL	DOM:	04 NOV 2020
Activity:	ELISA Assay: Acceptable Range: -15% - +50% of Reference Antigen Testing Results: Pass		
Buffer:	0.1 M Glycine Buffer, pH 9.3 – 9.7		
Preservative:	None		
Applications:	Each laboratory should determine an optimum working titer for use in its particular application		
Storage:	Store at $\leq -65^{\circ}\text{C}$. Avoid multiple freeze/thaw cycles		
Inactivation:	Product inactivated by chemical disruption and verified by Infectivity Testing (Cell Culture). Acceptable Range: 0 CPE Testing Results: Pass		
Safety Notes:	Refer to the appropriate Safety Data Sheet (SDS) for additional information Since no test method can offer complete assurance that infectious agents are absent, this material should be handled with caution.		


Quality Signature

11 December 2020
Date

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Product: HSV-1
Part #: 7305
TA Lot #: M38538021
Std Lot #: M21869013
Protocol: AP FR ELISA 1-5.ppt
Analyst: Allyson Mormon



Curve Fit

Lot #	ID	Max OD	Slope	Midpoint	Min OD	R	R ²
M38538021	SPL1	2.138	1.247	86.009	0.14	0.999	0.997
M21869013	Control1	1.941	1.25	85.049	0.132	0.998	0.996

% Difference = **1.13%** is: **ACCEPTABLE**

Sensitivity / Specificity

High Positive	9.736
Medium Positive	7.554
Background Ratio	1.502

Sensitivity / Specificity is: **ACCEPTABLE**