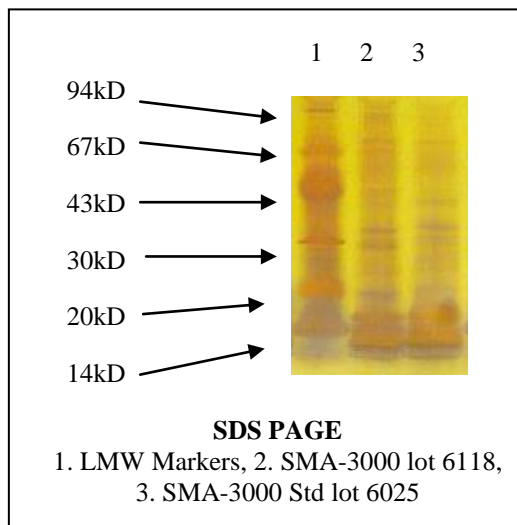


Certificate of Analysis

Product: SMA-3000
Lot Number: 6118
Appearance: Frozen clear liquid
Expiration Date: 01/December/2022
Material of Origin: Bovine Thymus from USA origin



Parameter	Specification	Result
Protein Concentration by BCA	0.142-0.686 mg/ml	0.288 mg/ml
Antigen titer by direct coat ELISA		
Vs Positive antibody 1	75-125%	83%
Vs Positive antibody 2	75-125%	81%
Vs Positive antibody 3	75-125%	80%
Mean	80-120%	81%
Noise/Signal ratio by direct coat ELISA		
Vs Normal serum	<0.014	-0.004
Vs SSA antibody	<0.047	0.006
Vs SSB antibody	<0.046	-0.011
Vs SCL-70 antibody	<0.019	0.006
Vs RNP antibody	<0.092	0.032
Vs Jo-1 antibody	<0.022	0.014
Vs Mitochondrial antibody	<0.051	0.009

Double Immunodiffusion Results:

	Standard	Lot 6118
Titer vs specific antibody	1:16	1:16
Reaction with anti-host serum proteins	Negative	Negative

Absorbance at 280nm: 0.74 at 1: 1 dilution
 This product meets or surpasses ImmunoVision specifications.

Thomas J. Smith

Quality Control Director

10/16/2017
 Date