

# CERTIFICATE OF ANALYSIS

**Complement Technology, Inc.**  
4801 Troup Hwy, Suite 701  
Tyler, Texas 75703, USA

Product: **HI-NHS**  
Catalog #: **HI-NHS Lot #**  
Exp. Date:

Description: Heat Inactivated Normal Human Serum (HI-NHS)

<b><u>Specifications</u></b>	<b><u>Limits</u></b>	<b><u>Results</u></b>
PROTEIN CONCENTRATION	50 – 75 mg/mL	68 mg/mL
FILL VOLUME	0.50 – 0.55 mL	0.52 mL
PRESERVATIVE	None, filtered through a 0.22 µm pore size filter.	None, filtered through a 0.22 µm pore size filter.

CLASSICAL PATHWAY (CP) FUNCTIONAL ACTIVITY (CH50)\*

CH50/mL NHS Complement Standard	Titer: > 75 CH50 Units/ml*	189 Units/ml
CH50/mL HI-NHS	Titer: ≤ 1 CH50 Units/ml*	Conforms

ALTERNATIVE PATHWAY (AP) FUNCTIONAL ACTIVITY (AP50)\*\*

APH50/mL NHS Complement Standard	≥ 70 APH50 Units/mL	154 APH50
AP50/mL HI-NHS	≤ 1 AP50 Units/ml**	Conforms

**HUMAN SERUM/PLASMA  
STARTING MATERIAL**

HBsAG	Negative	Negative
HBV - NAT	Negative	Negative
HIV 1/2	Negative	Negative
HIV - 1 NAT	Negative	Negative
HCV	Negative	Negative
HCV - NAT	Negative	Negative
WNV - NAT	Negative	Negative
Syphilis	Negative	Negative

**SAFETY PRECAUTIONS:** This product is derived from human blood and although it tested negative for HIV antibodies and Hepatitis B and C it should be handled with appropriate precautions including wearing of gloves and safety glasses.

\* One CH50 unit is defined as the input of NHS complement standard yielding 50% lysis of  $1 \times 10^8$  EA when incubated for 60 minutes at 37°C in a total reaction volume of 1.5 mL GVB\*\*.

\*\* One unit of whole alternative pathway activity (AP50) is defined as the input of NHS complement standard yielding 50% lysis of  $1.5 \times 10^7$  rabbit erythrocytes (Er) when incubated for 30 minutes at 37°C in a total reaction volume of 100 µl GVB° containing a final Mg-EGTA concentration of 5 mM.

**STORE AT -70°C or BELOW. Avoid Repeated Freeze/Thaw**  
**Thaw quickly at 37°C, mix, and put in an ice+water bath to cool.**

FOR RESEARCH USE ONLY

NOT FOR HUMAN OR DRUG USE

\_\_\_\_\_  
Signature of Analyst

\_\_\_\_\_  
Date of Analysis

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