

CERTIFICATE OF ANALYSIS

HUMAN SERUM PROTEIN

Human Complement C₄

Code No.	P151-0
Grade	Ultra Pure
Lot No.	

RECEIVER INFORMATION

Expiry Date

Manufacture Date

Storage Temperature Store below -15°C.

Storage Notes Avoid freeze thaw cycles.

Shipping Notes Dry Ice recommended.

PRODUCT INFORMATION

Source Pooled normal human serum/plasma.

Nominal Purity >99%.

Presentation Single homogenous batch, 0.2µm filtered, supplied liquid frozen in Sodium Phosphate buffer pH 7.0, containing 0.15M NaCl and 0.09% NaN₃.

Recovery In order to meet our customer needs, it should be noted that there is normally a dispensing overage allowance and the product recovery may, therefore, be greater than expected.

HEALTH AND SAFETY

Application For Research and Manufacturing Only.

Infectious Disease Tests

Starting material tested using FDA approved tests for:	Result
HIV 1 & 2 antibodies	
Hepatitis B surface antigen	
Hepatitis C antibodies	
HIV-1/HBV/HCV NAT	
Syphilis	

Precaution No test can guarantee the absence of an infectious agent. Please handle as potentially hazardous.

Material Safety

For further information and technical details, please download a Safety Data Sheet at www.bbisolutions.com or contact your BBI Account Manager.

ANALYSIS

TESTS	SPECIFICATIONS	RESULTS
<u>Determination Method</u>		
Protein Concentration by Optical Density at 280nm Using $E_{1cm}^{0.1\%} = 0.92$	≥ 1 mg/ml	mg/ml
Polyacrylamide Gel Electrophoresis	To show one band corresponding to C ₄ molecular weight	Pass/Fail
Cellulose Acetate Electrophoresis	To show one band with β_1 electrophoretic mobility	Pass/Fail
Radial Immunodiffusion (RID) assay vs. Siemens standard	To confirm result by optical density	Pass/Fail
Total protein concentration as determined by Lowry method	Results to be consistent with optical density data	Pass/Fail
2-D Immunoelectrophoresis vs. antiserum to Normal Human Serum	To show a single arc corresponding to C ₄	Pass/Fail
IgA, IgM, IgG and C ₃ levels	Are less than 1% altogether compared to total C ₄ level by RID	Pass/Fail
Bioburden	<100 CFU/ml	Pass/Fail

Physical Appearance Clear colourless solution.

Purity Defined as a single band on Polyacrylamide Gel Electrophoresis.

Name:		Position:	
Signed:		Date:	