

# CERTIFICATE OF ANALYSIS

## HUMAN SERUM PROTEIN

### Human Alpha-1-Antichymotrypsin ( $\alpha_1$ ACT)

<b>Code No.</b>	<b>P159-5</b>
<b>Grade</b>	<b>Pure</b>
<b>Lot No.</b>	

#### RECEIVER INFORMATION

<b>Expiry Date</b>	
<b>Manufacture Date</b>	
<b>Storage Temperature</b>	2-8°C.
<b>Storage Notes</b>	Do not freeze.
<b>Shipping Notes</b>	Cool pack.

#### PRODUCT INFORMATION

<b>Source</b>	Pooled normal human serum.
<b>Nominal Purity</b>	>90%
<b>Presentation</b>	Single homogenous batch, 0.2 $\mu$ m filtered, supplied lyophilised from 0.02M Tris buffer, pH 7.5, containing 0.15M NaCl.
<b>Reconstitution Advice</b>	Reconstitute the whole vial contents with deionised water. Do not weigh out. To ensure full product recovery, it is advised that reconstitution is performed directly into supplied vial incorporating further washings with the reconstitution buffer.
<b>Recovery</b>	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](http://www.bbisolutions.com) or contact your BBI Account Manager.

**ANALYSIS**

TESTS	SPECIFICATIONS	RESULTS
<b><u>Determination Method</u></b>		
<b>Protein concentration by Optical Density at 280nm using <math>E^{1cm}_{0.1\%} = 0.74</math></b>	<b>Report result</b>	<b>mg/ml</b>
SDS-Polyacrylamide Gel Electrophoresis	To show a major band corresponding to $\alpha_1$ ACT molecular weight of 68kD	Pass/Fail
Radial Immunodifusion (RID) using BBI Solutions standard	A positive reaction to confirm identity and verify dispensed quantity	Pass/Fail
SDS-PAGE of material after incubation with PSA	To show a band corresponding to molecular weight of PSA-ACT complex	Pass/Fail
Bioburden	<100 CFU/ml	Pass/Fail

**Physical Appearance** White, lyophilised solid.

**Purity** Defined as major band corresponding to  $\alpha_1$  ACT on coomassie stained SDS-PAGE.

<b>Name:</b>		<b>Position:</b>	
<b>Signed:</b>		<b>Date:</b>	