

CERTIFICATE OF ANALYSIS

HUMAN SERUM PROTEINS

Human Complement C3

Product code: P150-0

Batch No:

Product presentation: Single homogeneous batch supplied liquid frozen in Sodium Phosphate buffer, pH 7.2, containing 0.15M NaCl.

Purity: Nominally greater than 99% of the protein is Complement C_{3c}.

Starting material: Pooled normal human serum/plasma. Starting material donor tested and found negative for HIV I & II antibodies, Hepatitis B surface antigen, and Hepatitis C antibodies.

Storage: Store below -15°C, shelf life minimum 1 year.

Analysis

Results

<p>SDS-Polyacrylamide Gel Electrophoresis and Polyacrylamide Gel Electrophoresis.</p>	<p>Shows only one band corresponding to C_{3c} molecular weight at approx. 180KD.</p>
<p>Cellulose Acetate Electrophoresis</p>	<p>Shows only one band with β₂ electrophoretic mobility.</p>
<p>Total protein by Optical Density at 280nm using $E_{0.1\%}^{1cm} = 0.97$</p>	<p>mg/ml (dispensing solution).</p>
<p>Radial immunodiffusion (RID) using Behring standard.</p>	<p>Confirms result by optical density.</p>
<p>Total protein concentration as determined by Lowry method</p>	<p>Confirms result by optical density.</p>
<p>2-D immunoelectrophoresis vs. antiserum to Normal Human Serum</p>	<p>Single arc.</p>
<p>Low levels of IgA, IgG, IgM, Albumin, C₄ by RID using Behring standard.</p>	<p>Are less than 1% altogether compared to total C_{3c} content by RID.</p>

Although we refer to our product as C3/C4 as the diagnostics industry does, these diagnostic markers are in fact C3c and C4c. We do not carry out mass spectrometric analysis to confirm this as our C3/C4 are sold on the basis of their immunological activity

Position: **Name:**

Signed: **Date:** **Order No:**

