



# Certificate of Analysis

**Product:** Human Serum Albumin Lyophilized Charcoal Treated– Reagent Grade  
**Item number:** HA0CD  
**Lot number:** 087RM-01G09  
**Batch Size:** 80Kg  
**Pack in:** As request  
**Date of Manufacture:** July 16, 2009  
**Date of Expiration:** July 2019 at -20°C  
**Storage Condition:** -20°C  
**Fractionation Method:** Cohn-Oncley Cold Alcohol Procedure  
**Countries of Plasma Origin:** US FDA Licensed Facilities

**CAUTION:** This material not for use in product subject to license under section 351 of the US Public Health Safety Acts.

Test	Result	Methodology
Appearance	Cream powder	Visual
Optical density	0.031 Od	@540 nm
pH	6.8	pH meter
Solubility	13 minutes	Manual stirring
Total protein	4.9 g/dL	Biuret
Purity	99.5%	Protein electrophoresis
Calcium	<5 mg/dL	Arsenazo III
Chloride	12.6 mEq/L	ISE
Potassium	0.2 mEq/L	ISE
Sodium	24.7 mEq/L	ISE
Ash	1.7%	550°C, 3 hours incineration
Microbial	0 cfu/mL	Pour plate, 30-35°C, 48 hours
Moisture	2.5%	Karl Fisher
Testosterone	Below detected limit	AccuBind ELISA
DHEA-Sulfate	Below detected limit	AccuBind ELISA
Estradiol (E2)	Below detected limit	AccuBind ELISA
Progesterone	Below detected limit	AccuBind ELISA
170HProg	Below detected limit	AccuBind ELISA
Cortisol	Below detected limit	AccuBind ELISA

- Each plasma unit used in the preparation of human albumin was tested and found negative for the following by FDA licensed reagents.
- Each donation is tested and found negative or non-reactive to the following.
  - HIV I & II Antibodies.
  - HCV Antibodies.
  - HBsAg
  - Syphilis
  - HIV and HCV by NAT
- Results base on 5% solution.

Authorized by: Ashatola 07-16-2009  
 Quality Control Department

