

## Certificate of Analysis

**Product:** Human Serum, Single Charcoal Stripped and Delipidated  
**Lot#:** 176CM-01D06  
**Bulk:** 900 Liters  
**Filled in:** 3.5 Liters/Bottle  
**Preservative:** None  
**Bioburden:** <10cfu/mL or no growth  
**Date of Manufacture:** 04-27-2006  
**Shelf Life:** Five years at -20°C from date of manufactured  
**Filtration:** Filtered through a 0.22micron absolute membrane filter prior to bottling  
**Storage:** -20°C  
**Bleed testing:** Donors used in this pool were tested negative or non-reactive for: HIV-1/2, HCV, HBsAg, HIV1-Ag, (HCV/HIV-1/HBV by NAT testing) and ALT within acceptable range by FDA approved method.

Analyte	Result	Method
Calcium	6.6 mg/dL	SMAC
Phosphorus	1.7 mg/dL	SMAC
Uric acid	<0.2 mg/dL	SMAC
Alkaline Phosphatase	11 IU/mL	SMAC
LDH	14 IU/mL	SMAC
SGOT/AST	2 U/L	SMAC
Total Bilirubin	0.1 mg/dL	SMAC
SGPT/ALT	2 U/L	SMAC
GGTP	7 IU/mL	SMAC
Total Protein	5.3 g/dL	SMAC
Albumin	3.6 g/dL	SMAC
Globulin	1.7 g/dL	SMAC
A/G Ratio	2.1	SMAC
BUN	4 mg/dL	SMAC
Creatinine	<0.2 mg/dL	SMAC
Glucose	26 mg/dL	SMAC
Total Iron	83 µg/dL	SMAC
Chloride	140 meq/L	SMAC
Sodium	179 meq/L	SMAC
Potassium	1.6 meq/L	SMAC
Triglycerides	5 mg/dL	SMAC
Cholesterol	<3 mg/dL	SMAC
Ionized calcium	3.3 mg/dL	SMAC
Osmolality	361 mOSM/Kg	SMAC

**Caution:** Not for use in products subject to license under section 351 of the public health safety acts. For use in research or manufacturing into non-injectable products only.

