



## CERTIFICATE OF ANALYSIS

**PRODUCT:** Recombinant Human Colony Stimulating Factor 3 FOR RESEARCH  
**BATCH NO.:** Lot specific **MANUFACTURING DATE:** Lot specific  
**SIZE:** All pack sizes **RETEST DATE:** Lot specific  
**TEST BASIS:** ENTERPRISE STANDARD  
**CATALOG #:** 1120-02

Item	Standard	Result
Characteristics	White Freeze-dried Powder	Conformed
pH	4.0±0.5	3.98
SDS-PAGE Electrophoresis Purity	>98%	Conformed
HPLC Purity	>98%	98.45%
Specific Biological Activity	>1.0×10 <sup>7</sup> IU/mg ED <sub>50</sub> (NFS-60) = <0.1 ng/ml	1.13×10 <sup>7</sup> IU/mg Conformed
Molecular Weight	18.7±1.9 KDa	Conformed
Bacterial Endotoxins	<1.0EU/ug rHuG-CSF	<0.002EU/ug

**The product is tested according to the enterprise standard. The result is QUALIFIED.**

\* Gold Biotechnology, Inc. provides this Certificate of Analysis in good faith and to the best of its knowledge. It should not be substituted for the user's own raw material quality control. This material is for laboratory use only.

**Gold Biotechnology, Inc.**  
 1328 Ashby Rd.  
 St. Louis, MO 63132  
 P: (314)890-8778  
 F: (314)890-0503  
 E: [contactgoldbio86@goldbio.com](mailto:contactgoldbio86@goldbio.com)

Report date: 4/5/2013