



**CERTIFICATE OF ANALYSIS**  
**Recombinant Human TGF- $\beta$  1**  
**(Transforming growth factor-beta 1)**  
**Powder**  
**(Catalog Number 300-191P)**

Lot Number: G120073

Date Received: \_\_\_\_\_

Storage Temperature:  $\leq -10^{\circ}\text{C}$

Product Expiry\*: \_\_\_\_\_

For Cell culture, Further Manufacturing or Research use Only. Not for Direct Therapeutic Use.

\*Expiration Date is one year from the date of receipt when stored at  $-20$  to  $-80^{\circ}\text{C}$

Test	Methodology	Analysis
Biological Testing		
Endotoxin	Kinetic LAL	$<0.050$ EUs/ $\mu\text{g}$
Biological Testing		
Purity	Reducing and Non-reducing SDS-PAGE	$>95\%$
Biological Activity ED <sub>50</sub>	Inhibition of IL-4-induced HT-2 cell proliferation	$7.1 \times 10^7$ units/mg

The testing that has been performed as part of this lot release has been reviewed by Quality Assurance personnel and has confirmed that the testing meets the specifications presented on this Certificate of Analysis.

Korrina Nicewonger  
Name

QC Associate I  
Title

29 AUG 2022  
Date