

Introgen Therapeutics, Inc.
Certificate of Testing
Ad Reference Material - ATCC VR-1516
Lot Number 001503

Manufactured By: Introgen Therapeutics, Inc.
Date of Manufacture: 20 August 2001
Nominal Fill Volume: 0.5 mL
Container Closure: P/N 06-00174 C/N 21099010
Cell Bank: P/N 08-00034 , C/N 001262
Filtered Bulk, Pre-Hold: P/N 09-00161, C/N 001471

Lot Number: L/N 001503
Part Number: 10-00023
Number of Containers at 0.5mL: 1214
Store at ≤ -60°C
Virus Bank: P/N 08-00040, C/N 001502

Test	Study #	Result
Culture Media-Pre Infection (P/N 09-00026)		
Mycoplasma - Indirect	P-2008-03 0124707-01	Negative
In vitro Adventitious Virus	P-1044-00 0131002-01	Negative
Harvest (P/N 09-00152)		
Mycoplasma - Direct	P-2009-02 0124707-02	Negative
Bioburden	TR01005041	0 cfu/100mL
In Vivo Adventitious Virus	AA50GD. 005002.BSV	Negative
Adeno-Associated Virus (PCR)	P-3035-05 0126902-01	Negative
Diluted/ PreFiltered Bulk (P/N 09-00160)		
Endotoxin	TR00307159	< 0.15 EU/mL
Bioburden	TR01005042	0 cfu/40mL
Filtered Bulk (P/N 09-00163)		
Sterility	P-2026-02 0124703-02	Pass <i>negative</i>
Final Product (P/N 10-00023)		
Sterility	P-2026-02 0124703-01	Pass
huDNA	7-PR-J116.001 J116-001	120 bp Amplicon: <3pg of HEK293 DNA/μg DNA 411 bp Amplicon: <3pg of HEK293 DNA/μg DNA 757 bp Amplicon: <3pg of HEK293 DNA/μg DNA
Bacterial Endotoxins Test	TR00308008	< 0.15 EU/mL
Particle (OD)	TR02609013	5.5E11 vp/mL

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Test	Study #	Result
Particle (A260/A280)	TR02609013	1.37
HPLC (Purity)	TR05702185	99.0%
BSA	TR07203006	< 0.5 ng/mL
Titration of Adenovirus Vector	TR00112062	4E10 pfu/mL
pH	TR05001072	8.1

I certify that the above information is an accurate representation of the data derived from the identified samples, and were performed according to CGMPs.

By: 
Quality Assurance Representative

21 FEB 02
Date

4.2 x 10¹⁰ pfu/mL
5.5 x 10¹⁰ pfu/mL
~ 1.37