

CERTIFICATE OF TESTING

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Product Name: mrhIL-7, Mammalian Recombinant Human IL-7 For Research Use	Project Number: 563	Part Number: 50384
NSC Number: N/A	Production Date: 3/23/2011	Lot Number: L1103007
Container Size/Fill Volume: 3 mL vial / 0.5 mL fill	Storage Temperature: ≤ -70°C	
Description: mrhIL-7 is a recombinant cytokine and T cell growth factor. Colorless liquid consisting of recombinant Human Interleukin 7 in a solution of 25 mM Na ₂ HPO ₄ , 250 mM NaCl, pH 6.8, produced in HEK293E cells by transient transfection.		

Test Description	Assay Specification	Test SOP # or Study #	QC Test Request Number	Result
Identity				
SDS-PAGE, Non-reduced, Coomassie Stain with Densitometry	Report results; Identify bands ≥ 1% of total protein	BQC 22175, 22176, 22161, 22906	<u>QC-048846</u>	IL-7 Glycoforms: 26.8 kDa (95.9%), 21.3 kDa (4.1%)
SDS-PAGE, Reduced, Coomassie Stain with Densitometry	Report results; Identify bands ≥ 1% of total protein	BQC 22175, 22176, 22161, 22906	<u>QC-048846</u>	IL-7 Glycoforms: 28.4 kDa (97.1%), 23.9 kDa (2.9%)
N-linked Carbohydrates by CE	Report results	BQC 16137	<u>QC-049737</u>	Glycosylation pattern is concordant with the Human IL-7 Reference Material ¹
Peptide Mapping	Report results	BQC 22202	<u>QC-049651</u>	Concordant with the predicted pattern for mL-7 and the mrhIL-7 Reference Material ²
Western Blot	Report results	BDP EPS	<u>QC-049736</u>	Positive for Human IL-7; two glycoforms observed
Content				
Protein Concentration by A280	Report results, E ¹ mg/mL = 0.42 280 nm	BQC 22180	<u>QC-049562</u>	0.60 mg/mL
Potency				
2E8 Cell Proliferation Assay	Report results relative to reference standard ³ ; report ED ₅₀ value	BQC 16140	<u>QC-048646</u>	102% of Reference Standard ³ ; ED ₅₀ = 0.434 ng/mL
Purity				
HPLC-RP	Report results	BQC 22178	<u>QC-049564</u>	90.0% Major Glycoform 10.0% Minor Glycoform
HPLC-SEC	Report results	BQC 22935	<u>QC-049563</u>	90.4% Major Glycoform 9.6% Minor Glycoform
Safety				
Host Cell Protein Content (HEK293)	Report results	BQC 23103	<u>QC-048847</u>	66 ng/mL
Endotoxin (LAL)	Report results	BQC 22135	<u>QC-048584</u>	6.63 EU/mL

¹ Human mrhIL-7 Reference Material lot #L1102004.

² Human mrhIL-7 Reference Material lot #L1105001.

³ Human rhIL-7 Reference Standard lot #L0302004, manufactured in *E. coli*.

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