

Certificate of Analysis

Description: Recombinant Human Bone Morphogenetic Protein 2

Preparation Date: 03-22-2012

Retest Date: 02-20-2014

Expiry Date: 02-27-2016

Cat #: HEOPP-02081

Lot #: D10802031

Size: 2.0 µg/vial

Test Parameters	Specification	Result
Purity ¹	Sample must exhibit >95% purity	95.24%
Biological Activity ²	The ED ₅₀ must be less than 200 ng/mL, corresponding to a specific activity of >5.0 x 10 ³ IU/mg.	5.79 x 10 ³ IU/mg
Molecular Weight ³	Sample must have a molecular weight of 26.0 ± 2.6 kDa	Pass
Endotoxin ⁴	Results must show ≤ 1.0 EU/µg.	≤ 0.1 EU/mL
Physical Appearance	Sample must have a white, lyophilized powder appearance	Pass

1. The sample is assayed for purity by SDS-PAGE and HPLC analyses.
2. The ED₅₀ is determined by a cell proliferation assay using murine ATDC5 cells.
3. The sample is tested for molecular weight using SDS-PAGE.
4. The sample is tested for endotoxin contamination with LAL test.



Jane Chen
QA Manager
Feb 27, 2014