


Certificate of Analysis

Description: Recombinant Human Lymphotoctin / XCL1**Preparation Date:** 01-23-2011**Retest Date:** 12-05-2012**Expiry Date:** 12-12-2014**Cat #:** HEOPP-01021**Lot #:** 870388**Size:** 5.0 µg/vial

Test Parameters	Specification	Result
Purity ¹	Sample must exhibit >98% purity.	98.20%
Biological Activity ²	Sample must show a concentration of 10-100 ng/mL.	Pass
Molecular Weight ³	Sample must have a molecular weight of 10.2± 1.0 kDa.	Pass
Endotoxin ⁴	Results must show ≤ 1.0 EU/mL.	≤ 0.5 EU/mL
Physical Appearance	Sample must have a white, lyophilized powder appearance.	Pass

Notes:

1. The sample is assayed for purity by SDS-PAGE and HPLC analyses.
2. The biological activity determined by a cell proliferation assay using human T-lymphocytes.
3. The sample is tested for molecular weight using SDS-PAGE.
4. The sample is tested for endotoxin contamination with LAL test.



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Dec 13, 2012