

Human Hematopoietic Stem Cell Expansion Cytokine Bundle

Cat. No. L00444-1
Version 05182012

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1. Product Description

Human Hematopoietic Stem Cell Expansion Cytokine Bundle contains the key components required for ex vivo Human Hematopoietic Stem Cells

Key Features:

- ♦ The manufacture process of cytokines is carried out according to GLP guidelines.
- ♦ Exceptionally low endotoxin level, even less than 0.2 EU/μg, much less than the most other suppliers' standard (1 EU/ug).
- ♦ High purity determined by SDS-PAGE and HPLC analysis
- ♦ High biological activity and functionality
- ♦ Excellent lot-to-lot consistency
- ♦ Competitive prices compared with other suppliers'

2. Bundle Contents

Cytokine bundle includes:

Human SCF (Catalog No. Z02692)	10 μg
Human TPO (Catalog No. Z02720)	10 μg
Human Flt3-Ligand (Catalog No. Z02926)	10 μg

3. Characteristics

Table 1. Characteristics of Each Cytokine in the Bundle

	Specific Activity	Endotoxin Level	Purity
Human SCF (Catalog No. Z02692)	The ED50 as determined by the dose-dependant stimulation of human TF-1 cells is < 2 ng/ml, corresponding to a specific activity of >5×10 ⁵ IU/mg.	<1 EU/μg	>95% by SDS-PAGE and HPLC analysis

Human TPO (Catalog No. Z02720)	The ED50 as determined by the dose-dependant stimulation of Mo7e cells is typically 1-3 ng/ml,,corresponding to a specific activity of $> 3.3 \times 10^5$ units/mg.	<0.2 EU/ μ g	>98% by SDS-PAGE and HPLC analysis
Human Flt3-Ligand (Catalog No. Z02926)	The ED50 as determined by the dose-dependant stimulation of the proliferation of human AML5 cells is < 1.0 ng/ml, corresponding to a specific activity of $> 1.0 \times 10^6$ units/mg.	<0.2 EU/ μ g	>97% by SDS-PAGE and HPLC analysis

4. Storage

This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.

For Research Use Only.

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