

PowerStem HE1

PowerStem HE1 is a specialized serum-free medium for the cultivation and expansion of human embryonic stem cells (hES cells). Pluripotent human embryonic stem cells have the capacity to differentiate into all of the somatic cell types and therefore hold great promise for regenerative medicine. Even after long-term culture, cells maintained on Matrigel or Laminin retain a normal karyotype and a stable proliferating rate.

PowerStem HE1 basal medium and PowerStem HE1 growth supplement are guaranteed stable for 12 months when properly stored. PowerStem HE1 complete medium (basal + supplement) is stable for 1 month when stored in the dark at 2-8° C. We do not recommend using the complete medium beyond 1 month.

Composition

PowerStem HE1 contains purified proteins, lipids, salts, amino acids, trace elements, attachment factors, hormones and growth factors in an optimized formulation. PowerStem HE1 is fully defined and contains no peptones or hydrolysates.

Please note: PowerStem HE1 contains b-FGF in a concentration of 20 µg/l. If higher b-FGF levels are required, please add additional b-FGF to the medium.

Suitability

Serum-free cultivation of human embryonic stem cells (hES cells), while maintaining an undifferentiated state.

Please note: For research use only, not for therapeutic or diagnostic use.

Special advantages

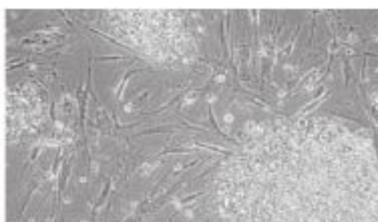
PowerStem HE1 allows the cultivation and expansion of hES cells under serum-free conditions. It is fully defined in its composition and thus enables constant and comparable experimental conditions resulting in highly reproducible data. The hES cells can be cultivated without the usual feeder layers (primary fibroblasts), they show a high proliferation rate and largely retain their undifferentiated state. By adding specific differentiation factors, hES cells can differentiate in vitro to the desired cell types (e.g. nerve cells, muscle cells, endothelial cells, etc.).

Instructions for use

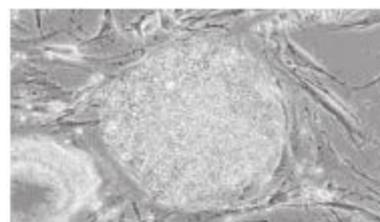
Detailed instructions will be provided with the accompanying datasheet for PowerStem HE1. In addition, instructions for use can also be found at www.pan-biotech.com.



hES-cells in PowerStem HE1



hES-cells colony in PowerStem HE1



hES-cells in medium with 10 % FBS

PowerStem HE1⁽³⁾

100 ml Kit
500 ml Kit

P04-7711K
P04-77110K

(1) usually on stock, (2) minimum order 10 l, (3) available on request

PowerStem HE2

PowerStem HE2 is a specialized serum-free medium for cultivation and expansion of human embryonic stem cells (hES cells). Pluripotent human embryonic stem cells have the capacity to differentiate into all of the somatic cell types and therefore hold great promise for regenerative medicine. Even after long-term culture, cells maintained on Matrigel or Laminin retain a normal karyotype and a stable proliferating rate.

PowerStem HE2 basal medium and PowerStem HE2 growth supplement are guaranteed stable for 12 months when properly stored. PowerStem HE2 complete medium (basal + supplement) is stable for 1 month when stored in the dark at 2-8° C. We do not recommend using the complete medium beyond 1 month.

Composition

PowerStem HE2 contains purified and recombinant proteins, lipids, salts, amino acids, trace elements, attachment factors, hormones and growth factors in an optimized formulation. PowerStem HE2 is chemically defined and contains no animal-derived components.

Please note: PowerStem HE2 contains b-FGF in a concentration of 2 µg/l. If higher b-FGF levels are required, please add additional b-FGF to the medium.

Suitability

Serum-free cultivation of human embryonic stem cells (hES cells), while maintaining an undifferentiated state.

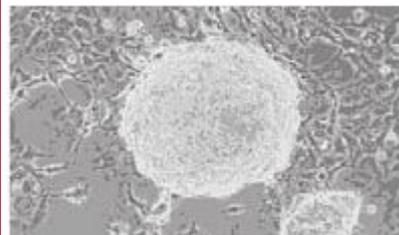
Please note: For research use only, not for therapeutic or diagnostic use.

Special advantages

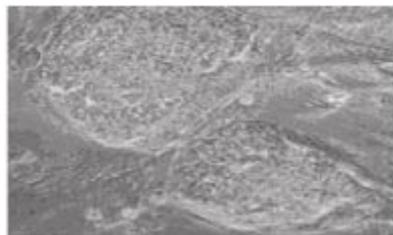
PowerStem HE2 allows the cultivation and expansion of hES cells under serum-free conditions. It is fully defined in its composition thus enabling constant and comparable experimental conditions resulting in highly reproducible data. The hES cells can be cultivated without the usual feeder layers (primary fibroblasts), they show a high proliferation rate and largely retain their undifferentiated state. By adding specific differentiation factors, hES cells can differentiate in vitro to the desired cell types (e.g. nerve cells, muscle cells, endothelial cells, etc.).

Instructions for use

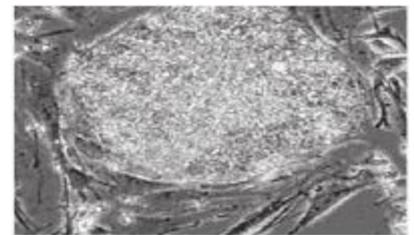
Detailed instructions will be provided with the accompanying datasheet for PowerStem HE2. In addition, instructions for use can also be found at www.pan-biotech.com.



hES-cells in PowerStem HE2



hES-cells in PowerStem HE2



hES-cells in medium with 10 % FBS

PowerStem HE2 ⁽³⁾	100 ml Kit 500 ml Kit	P04-7712K P04-77120K
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(1) usually on stock, (2) minimum order 10 l, (3) available on request