

## PowerStem iPS1

PowerStem iPS1 is a specialized serum-free medium for the cultivation and expansion of human induced pluripotent stem cells (iPS cells). Induced pluripotent stem cells behave similar to human embryonic stem cells and 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 (> 50 passages) iPS cells retain a normal karyotype and a stable proliferating rate.

PowerStem iPS1 basal medium and PowerStem iPS1 growth supplement are guaranteed stable for 12 months when properly stored. PowerStem iPS1 complete medium (basal + supplement) is stable for 2 weeks when stored in the dark at 2-8° C. We do not recommend using the complete supplemented medium beyond 2 weeks.

### Composition

PowerStem iPS1 contains purified and recombinant proteins, lipids, salts, amino acids, trace elements, hormones and growth factors in an optimized formulation. PowerStem iPS1 is a defined medium and contains no animal- or human-derived substances (except human serum albumin (100 µg/ml) as a stabilizing agent).

Please note: PowerStem iPS1 contains FGF-2 in a high concentration; it is not recommended to add additional FGF-2.

### Suitability

Serum-free cultivation of human induced pluripotent stem cells (iPS cells) under defined conditions, while maintaining an undifferentiated state.

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

### Special advantages

PowerStem iPS1 allows the cultivation and expansion of iPS 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 iPS cells can be cultivated without the usual feeder layer of primary fibroblasts, they show a high proliferation rate and largely retain their undifferentiated state. By adding specific differentiation factors, iPS cells can be differentiated 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 iPS1. In addition, instructions for use can also be found at [www.pan-biotech.com](http://www.pan-biotech.com)

PowerStem iPS1 <sup>(3)</sup>	100 ml Kit	P04-7713K
	500 ml Kit	P04-77130K

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

## PowerStem iPS2

PowerStem iPS2 is a chemically defined serum-free medium for cultivation and expansion of human induced pluripotent stem cells (iPS cells). Induced pluripotent stem cells behave similar to human embryonic stem cells and 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 (> 50 passages) iPS cells retain a normal karyotype and a stable proliferating rate.

PowerStem iPS2 basal medium and PowerStem iPS2 growth supplement are guaranteed stable for 12 months when properly stored. PowerStem iPS2 complete medium (basal + supplement) is stable for 1 week when stored in the dark at 2-8° C. We do not recommend using the complete supplemented medium beyond 1 week.

### Composition

PowerStem iPS2 contains lipids, salts, amino acids, trace elements, hormones and recombinant growth factors in an optimized formulation. PowerStem iPS2 is chemically defined and contains no animal- or human-derived substances.

Please note: PowerStem iPS2 contains a high concentration FGF-2; it is not recommended to supplement with additional FGF-2.

### Suitability

Serum-free cultivation of induced pluripotent stem cells (iPS cells), while maintaining an undifferentiated state.

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

### Special advantages

PowerStem iPS2 allows the cultivation and expansion of iPS 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 iPS cells can be cultivated without the usual feeder layer of primary fibroblasts, they show a high proliferation rate and largely retain their undifferentiated state. By adding specific differentiation factors, iPS cells can be differentiated 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 iPS2. In addition, instructions for use can also be found at [www.pan-biotech.com](http://www.pan-biotech.com)

PowerStem iPS2 <sup>(3)</sup>	100 ml Kit 500 ml Kit	P04-7714K P04-77140K
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(1) usually on stock, (2) minimum order 10 l, (3) available on request