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# B8 media discovery kit (Qk503)




**Type:** Growth factor discovery kits

**Available for purchase:** Qk503: B8 media discovery kit

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## Product Information

For current hiPSC media comparison with B8 media to see if your cells can be maintained as efficiently while giving you the weekends off. B8 hiPSC media, developed in the Burridge lab at Northwestern University, is growing in popularity thanks to its cost-effective and weekend-free cell culture credentials. B8 medium is a thermostable version of Essential 8 Medium. It is xeno-free and feeder-free medium for the growth and expansion of human pluripotent stem cells.

The B8 media Discovery kit allows the optimization of the published B8 recipe, including modified versions with higher concentrations of TGF-β1/3 (1 or 2 ng/ml), to evaluate how concentrations affect the expression of pluripotency markers. Compare B8 media with current hiPSC media to evaluate whether your cells can be maintained as efficiently with weekend-free culture.

### Product Information

- >98%, by SDS-PAGE quantitative densitometry
- Bioactivity Guaranteed
- Expressed in *E. coli*
- Animal origin-free (AOF) and carrier protein-free
- Manufactured in our Cambridge, UK laboratories
- Lyophilized

### Reconstitution instructions

- Discovery kits

### Featured applications

- Chemically defined media optimization

### Further quality assays

- Mass spectrometry: single species with expected mass
- Recovery from stock vial:  >95%
- Endotoxin: <0.05 EU/µg protein

## Scientific Information

### Bioactivity

**IGF-1 (insulin-like growth factor 1)** - Qk047 - **500 µg**

Maintains pluripotent stem cells and is necessary for cell growth in the absence of insulin.

**IGF-1 LR3 (insulin-like growth factor long arginine 3)** - Qk041 - **500 µg**

A synthetic analog of IGF-1, substitutions include an arginine substitution and an N-terminal protein extension. Consequently, IGF-1 LR3 has improved biological potency and extended half-life.

**FGF2-G3 (145 aa)** - Qk052 - **100 µg**

A thermostable engineered form of FGF-2. FGF2-G3 145 aa comprises the 145 aa form of FGF-2 (Qk025). The functional half-life has increased from <10 h (wild-type) to >7 days (FGF2-G3).

**FGF2-G3 (154 aa)** – Qk053 - **100 µg**

A thermostable engineered form of FGF-2. FGF2-G3 154 aa is the 154 aa mature domain of FGF-2 (Qk027). The functional half-life has increased from <10 h (wild-type) to >7 days (FGF2-G3).

**NRG-1** – Qk045 - **50 µg**

Frequently used in the maintenance of pluripotent stem cells and has widespread use in stem cell culture media.

**TGF-β1 PLUS** – Qk010 - **25 µg**

Regulates various cellular processes, including cell proliferation, growth, differentiation, motility, and apoptosis. It is an essential growth factor in many embryonic and induced pluripotent stem cell maintenance media, including the commonly used E8, StemPro, and mTeSR media.

**TGF-β3** – Qk054 - **25 µg**

A member of the TGF beta family, involved in regulating cell survival, proliferation and differentiation. TGF-β3 is used in pluripotent stem cell maintenance media, such as B8 media.

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