

Food grade B8 media discovery kit (Qk503-FG)



Type: Food grade discovery kits

Available for purchase: Qk503-FG: Food grade B8 media discovery kit

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Product Information

B8 iPSC 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 pluripotent stem cells.

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

Species reactivity

- Bovine/porcine

Product Information

- High quality food grade proteins
- >98%, by SDS-PAGE quantitative densitometry
- Animal origin-free (AOF) and carrier protein-free
- Expressed in *E. coli*
- Bioactivity Guaranteed
- Manufactured in the UK under a food manufacturing HACCP regime

- Lyophilized

Reconstitution instructions

- Discovery kits

Featured applications

- Bovine and porcine stem cell expansion and maintenance
- Cellular agriculture and cultivated meat cell culture media optimization
- Serum-free media development

Further quality assays

- Mass spectrometry: single species with expected mass
- Recovery from stock vial: >95%
- Endotoxin: <0.05 EU/μg protein
- Full raw materials traceability, allergen analysis, CoO, CoA, beta-lactam-free and animal origin-free certification available

Scientific Information

Bioactivity

Bovine/porcine IGF-1 (Insulin-like growth factor 1) - Qk113-FG - **500 µg**

Used in the maintenance of bovine/porcine pluripotent stem cells to replace the need for insulin.

Bovine/porcine IGF-1 LR3 (insulin-like growth factor long arginine 3) - Qk114-FG - **500 µg**

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

Bovine/porcine FGF2-G3 (145 aa) - Qk080-FG - **100 µg**

A thermostable engineered form of bovine/porcine FGF-2. FGF2-G3 (145 aa) comprises the highly bioactive 145 amino acid form of FGF-2 with the functional half-life has increased from <10 h (wild-type) to >7 days (FGF2-G3).

Bovine/porcine FGF2-G3 (154 aa) - Qk081-FG - **100 µg**

A thermostable engineered form of bovine/porcine FGF-2. FGF2-G3 (154 aa) comprises the highly bioactive 154 amino acid form of FGF-2 with the functional half-life increased from <10 h (wild-type) to >7 days (FGF2-G3).

Bovine/porcine NRG-1 - Qk115-FG - **50 µg**

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

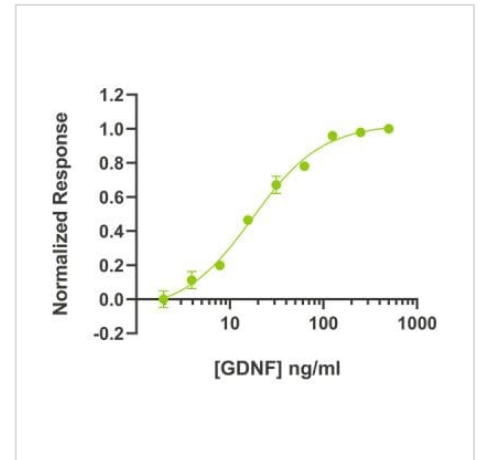
Bovine/porcine TGF-β1 PLUS - Qk111-FG - **25 µg**

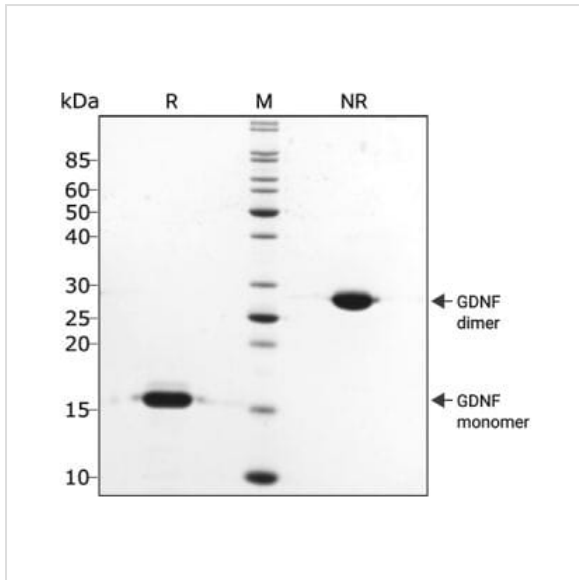
Regulates various cellular processes, including cell proliferation, growth, differentiation, motility, and apoptosis. It is an essential growth factor in many embryonic and induced pluripotent stem cell maintenance media, including the commonly used E8, StemPro, and mTeSR media.

Porcine TGF-β3 - Qk084-FG - **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.

Purity





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