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Beefy-9 media growth factor discovery kit (Qk504)



Type: Growth factor discovery kits

Available for purchase: Qk504: Beefy9 media growth factor discovery kit

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Product Information

For rapid testing of Beefy-9 against current serum-free bovine stem cell maintenance media to evaluate whether your bovine satellite cells can be expanded more efficiently. Beefy-9 is the first animal-component-free foundational medium for cultured meat and ensures food safety with no synthetic steroids, addressing regulatory concerns. It's an open recipe, allowing for easy replication and future modifications which prevents barriers to adoption. Beefy-9 supports long-term culture over multiple passages, a critical requirement for cultured meat production, distinguishing it from prior serum-free media options.

This discovery kit allows the optimization of the published Beefy-9 recipe. Compare it with current serum-free bovine stem cell maintenance media to evaluate whether your bovine satellite cells can be expanded efficiently.

Product Information

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

Reconstitution instructions

- Discovery kits

Featured applications

- Bovine and porcine stem cell expansion and maintenance

Further quality assays

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

Scientific Information

Bioactivity

Bovine/porcine FGF-2 (154 aa) - Qk056 - **500 µg**

The long form of FGF-2 used for the development of optimized serum-free culture media for species-specific bovine (cow) and porcine (pig) cultivated meat and veterinary research applications.

Bovine/porcine FGF2-G3 (154 aa) – Qk081 - **500 µg**

A thermostable engineered form of bovine/porcine FGF-2. This is the 154 aa mature domain of FGF-2 (Qk056). 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.

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

Used in the maintenance of 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. The substitutions include an arginine substitution and an N-terminal protein extension. Consequently, IGF-1 LR3 has improved biological potency and extended half-life.

TGF-β3 – Qk054 - **25 µg**

A member of the transforming growth factor family, a family involved in regulating cell survival, proliferation and differentiation.

Original product page: https://qkine.com/product/beefy9-media-growth-factor-discovery-kit-qk504/

PDF generated: 13 October 2026

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