FUTURE FIELDS

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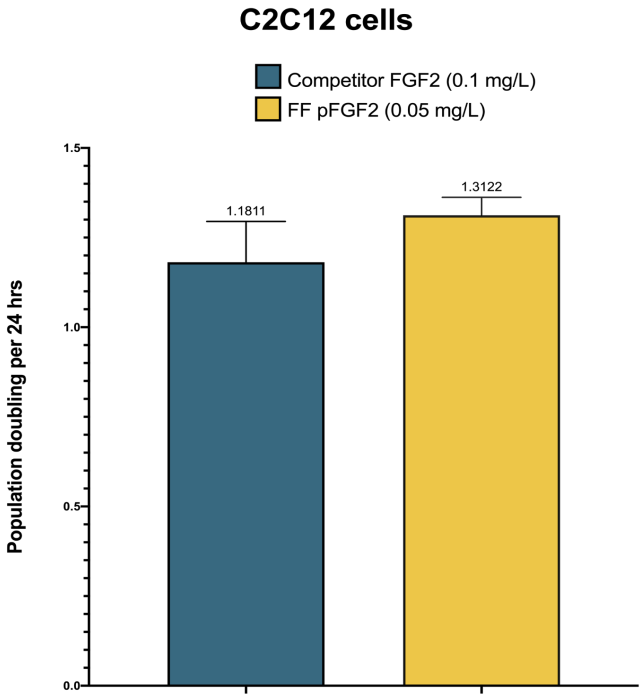
Product Specification Sheet for Purified Protein

Product Identifier: FF Recombinant Bovine FGF2 **Source:** Recombinant, insect-derived

Product Highlights:

Future Fields *Recombinant Bovine FGF2 is* produced using the EntoEngine™ process. It is the most sustainable option for growth factors while retaining traditional purification methods. Future Fields recombinant bovine FGF2 can sustain cell culture in two and three dimensions across a variety of land-dwelling and aquatic species with performance equivalent or better than expensive alternatives.

- High bioactivity across species
- Non-mammalian origin
- Low-risk expression platform with food-safe production capability
- Production requires minimal water, energy, and waste treatment



Description of Growth Factor:

Synonyms: Basic Fibroblast Growth Factor, bFGF, FGF2
Description: FGF2 is a member of the FGF family (one of 23). It is a bioactive protein intended for use in cell culture applications. Members of this protein family bind heparin and possess broad mitogenic and angiogenic activities. They play a central role in the regeneration of a variety of tissues, promoting cellular proliferation in culture. The mRNA for FGF2 contains multiple polyadenylation sites, and is alternatively translated from AUG and non-AUG (CUG) initiation codons resulting in five unique isoforms with distinct properties. Recombinant Bovine FGF2 produced is a single, non-glycosylated, polypeptide chain containing 158 amino acids and having a molecular mass of 17.3 kDa. The Fibroblast Growth Factor 2 is purified by proprietary chromatographic techniques and other various purification techniques.

Sequence (monomer):
**MAAGSITTLPALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPHIKLQLQAEERGVVSIKGVCANRYLAMKEDG
RLLASKCVTDECFFFERLESNNYNTYRSRKYSSWYVALKRTGQYKLGPKTGPGQKAILFLPMSAKS**

Country of Production: Canada