



## Product Specification Sheet for Growth Media Supplement

**Product Identifier:** EntoF Bovine FGF2 Enriched Growth Media Supplement    **Source:** Recombinant, insect-derived

### Product Highlights:

Produced by the EntoEngine™ process, the Future Fields *EntoF FGF2 Enriched Growth Media Supplement* comes in a 1000X concentrate, containing enough FGF2 to sustain cell culture in two and three dimensions with cross species performance equivalent or better than expensive, overpurified alternatives. Usable as a direct replacement for FGF2 growth factor needs, or to reduce overall requirements for serum, the *EntoF FGF2 Enriched Growth Media Supplement* is the most cost effective and sustainable option for cell culture FGF needs on the market today.

- 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 Component:

**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):**

MAAGSITTLPALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRHPDGRVDGVREKSDPHIKLQLQAERGVSISIKGVCANRYLAMKEDG  
RLASKCVTDECFERLESNNYNTYRSRKYSSWYVALKRTGQYKLGPKTGPQGKAILFLPMSAKS

### C2C12 cells

