# **FUTURE FIELDS**



### **Headquarters and Production Site:**

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## **Certificate of Analysis (CoA)**

**Product Identifier:** Ento-F Bovine FGF2 Enriched Growth Media Supplement

**Source:** Produced recombinantly in *Drosophila melanogaster* **Lot#:** Ento-F002, Ento-F003, Ento-F004, Ento-F007, Ento-F012

(Note: The listed lots were pooled prior to safety testing)

**Expiration Date:** Minimum 6 months from production when stored according to recommendations (see specifications sheet). Full expiration date is currently being determined.

Synonyms: Ento-F, Basic Fibroblast Growth Factor, bFGF, FGF2

Sequence (monomer):

MAAGSITTLPALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPHIKLQLQAEERGVVSIKGVCANRYLAMKEDG RLLASKCVTDECFFFERLESNNYNTYRSRKYSSWYVALKRTGQYKLGPKTGPGQKAILFLPMSAKS

## Specifications:

#### Formulation:

Chemical name	CAS # Common name		W/V of water %
Recombinant bovine protein	N/A	Protein	<0.0001
Endogenous <i>Drosophila</i> proteins	N/A	Protein	<0.5
Ethylenediaminetetraacetic acid	6381-92-6	EDTA	0.7444
Tris hydrochloride	1185-53-1	Tris-HCl	0.605
Sodium chloride	7647-14-5	NaCl	0.8766

Appearance: Lyophilized powder; light orange in colour

**pH:** 7.0

**Biological Activity:** Determined by cell proliferation assay with C2C12 immortalized myoblast cell line. Lots 002, 003, 004, 007, and 012 were tested at a 1:1000 dilution in culture.

# Food Safety Analysis:

**Important Information:** Analyses were performed on reconstituted Ento-F FGF2 concentrate in ultrapure water.

Impurity/Contaminant	Test/Analysis	Results	Detection Limit
Endotoxin	LAL Assay, Gel Clot Method	1.92 EU/mL	0.03 EU/mL
Yeasts and Mould	MFHPB-22	< 5 CFU/mL	< 5 CFU/mL = No counts were detected based on the volume analyzed.
Mycotoxins (Total Aflatoxins)	ELISA	< 1 pbb	1 pbb
Total Aerobic Microbial Count	MFHPB-18	< 5 CFU/mL	< 5 CFU/mL = No counts were detected based on the volume analyzed.
Salmonella spp.	MFLP-29	Negative	Negative
Listeria monocytogenes	MFLP-28	Negative	Negative
Escherichia coli	MFHPB-34	< 10 CFU/mL	< 10 CFU/mL = No counts were detected based on the volume analyzed.
Enterobacteriaceae	MFLP-43	< 10 CFU/mL	< 10 CFU/mL = No counts were detected based on the volume analyzed
Bacillus cereus	MFLP-42	< 10 CFU/mL	< 10 CFU/mL = No counts were detected based on the volume analyzed
Staphylococcus aureus	MFHPB-21	< 10 CFU/mL	< 10 CFU/mL = No counts were detected based on the volume analyzed
Clostridium perfringens	MFHPB-23	< 5 CFU/mL	< 5 CFU/mL = No counts were detected based on the volume analyzed.
Heavy Metals Analysis	USP 232/233, US EPA 200.7, metals method (modified) and US EPA	Pass	Arsenic < 0.005 ppm Cadmium < 0.0025 ppm Lead < 0.00125 ppm Mercury < 0.00125 ppm

	1631.E., Total Mercury analysis (modified).		
Pesticide Residue Testing (96 different residues)	LC-MSMS	Pass	Various limits for each of the 96 residues tested
Wheat (Gluten) Allergen Analysis	ELISA	< 2.5 ppm	2.5 ppm
Egg Allergen Analysis	ELISA	< 2.5 ppm	2.5 ppm

Analyses were performed by a third party laboratory that is accredited by the Standards Council of Canada under ISO/IEC 17025 and has a Health Canada Establishment Licence for testing GMP products.

Signature: Jia Jith	Date: 22 SEP2021
Lia Firth, Quality Control Specialist	