

New Zealand–origin purified proteins

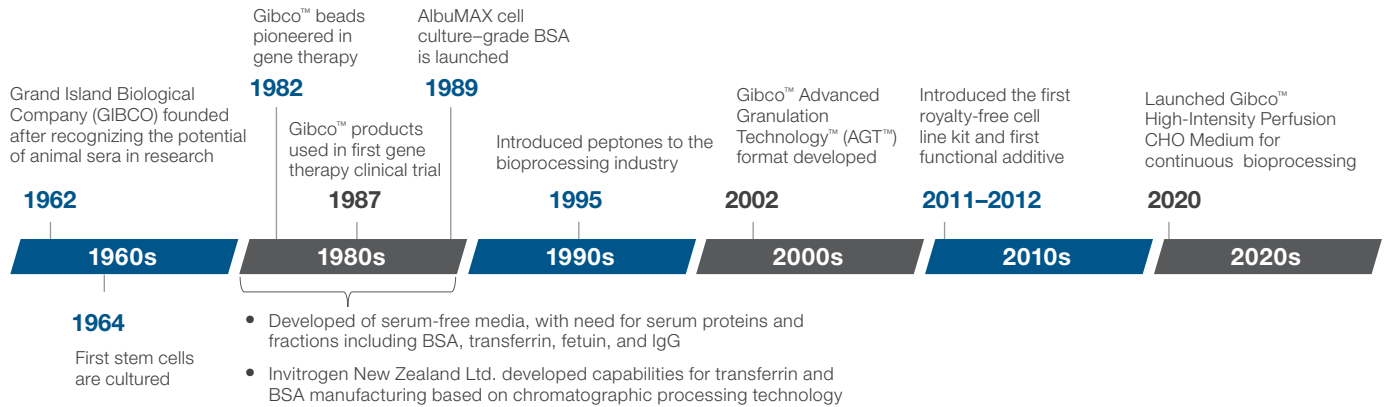
Introduction

Gibco™ purified protein products have a reputation for reliability and performance in key bioproduction, cell culture, and diagnostic applications. Discover the purified protein that best suits your specific needs from our expansive portfolio, ranging from Gibco™ AlbuMAX™ cell culture–grade bovine serum albumin (BSA), transferrin, and fetuin, to Gibco™ BSA Fraction V and immunoglobulin G (IgG) products for use in the production of biological therapeutics and diagnostics.

Cell culture performance and other native attributes are maintained by utilizing chromatography to purify our proteins from New Zealand–origin sera and plasma, which are recognized for being free from animal disease.

History

As a leader in gene therapy today, our innovations help you remain at the forefront of the evolving bioprocessing industry—from pioneering the use of serum to striving to solve tomorrow’s challenges with our capacity for omics and predictive modeling.



Manufacturing process

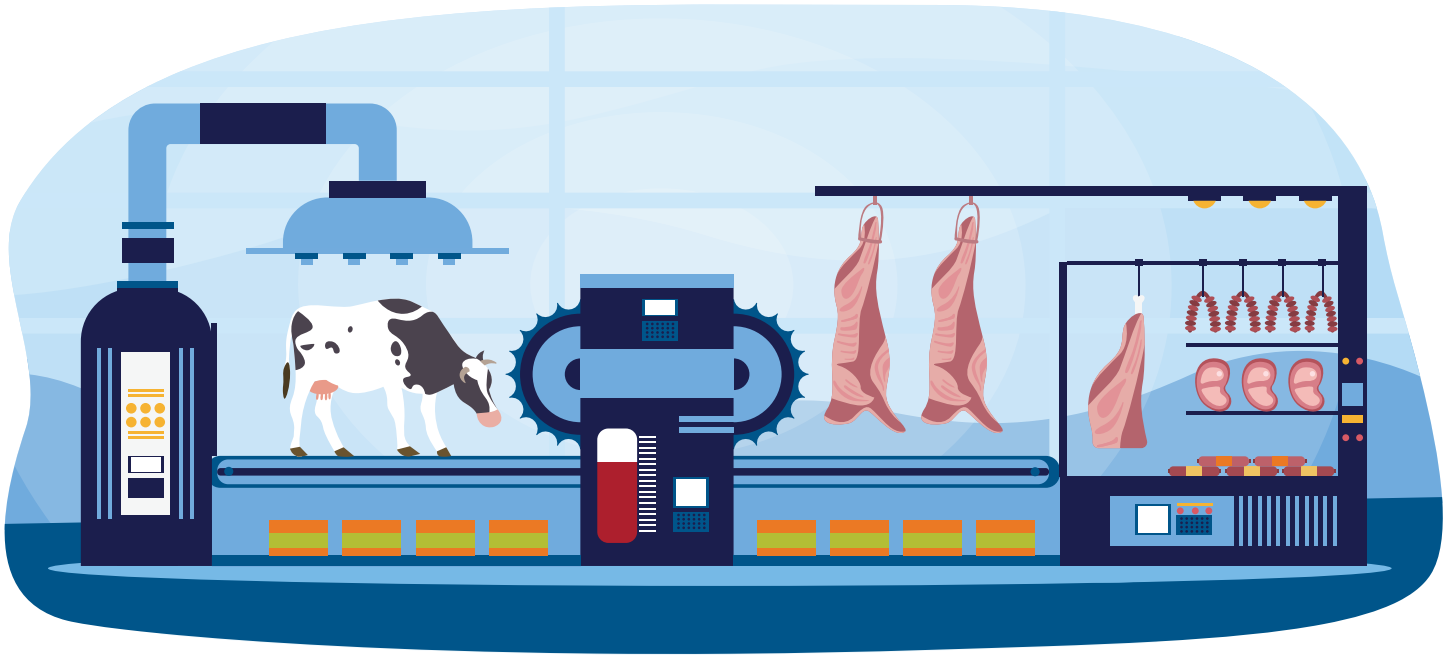
Advantages of chromatographic processing:

- Non-denaturing process
- Preserves native characteristics and functionality
- For BSA, it helps ensure native lipid components are preserved
- Greater process consistency and control
- Lower endotoxin levels
- Improved cell growth and productivity
- No solvents or additives used

Our BSA chromatographic processes have been specifically developed to meet the rigorous requirements of the industry. Our purification process employs gentler steps, which help ensure preservation of the key protein characteristics, such as biological activity, stability, and structural integrity, leading to improved performance and reliability. This translates to enhanced functionality and effectiveness in various applications, including cell culture.

Our chromatographic processes set us apart from our competitors by providing a trusted purification method that helps ensure high quality, performance, and functionality of purified proteins. This results in a product that supports the stringent quality standards of the industries we serve.

Purified proteins



BSA: AlbuMAX BSA and other BSA

- A range of BSA for multiple applications: Fatty acid-rich cell culture grades, including low and ultra-low IgG versions for IgG-sensitive applications and antibody manufacture, and fatty acid-poor (decolorized) grades for both cell culture and diagnostics
- Specific, gentle chromatographic and filtration processes that maintain native attributes of the BSA yet help ensure high purity and other desirable parameters
- Suitable for use in numerous cell culture and diagnostic applications, including the manufacturing of biotherapeutics

Transferrin: Bovine and porcine

- We offer both holo (iron (Fe^{3+})-saturated) or apo (iron-free) forms from bovine plasma and the holo form from porcine serum
- Chromatography-based process that includes pasteurization (10 h at 60°C)
- Used to either supply iron (holo) or remove iron (apo), to control iron metabolism and toxicity in cell culture and biomanufacturing applications

Fetuin: Bovine

- Glycoprotein isolated from fetal bovine serum (FBS)
- Well-defined process maintains the native glycosylation pattern of the protein
- Cell culture supplement for cell attachment, growth support, and protein stabilization

Gamma globulin, specifically IgG: Bovine, caprine, and ovine

- High-purity IgG supplied as a lyophilized powder or solution (bovine only)
- Manufactured by traditional or affinity chromatography processes that maintain the native configuration of the molecule
- Suitable for use in the manufacture of diagnostic kits or in immunoassay applications

Other

Hemin: Equine

- High-purity hemin chloride (ferriprotoporphyrin IX chloride) from equine blood
- Robust, defined purification process helps ensure a high-purity, stable hemin product with a high ferric iron content
- Supplement for the growth of *Haemophilus influenzae* type B (HiB); suitable for HiB vaccine manufacturing

Ordering information

Product*	Pack size**	Cat. No.
AlbuMAX I Lipid-Rich BSA	1 kg	11020039 (also known as 11020-039)
AlbuMAX II Lipid-Rich BSA	1 kg	11021045 (also known as 11021-045)
BSA Fraction V Fatty Acid Poor	1 kg	30066724
BSA Fraction V Ultra-Low IgG	1 kg	E014000IP [†]
BSA Fraction V IgG Free	1 kg	30063721 [†]
BSA Fraction V IgG Free, Fatty Acid Poor	1 kg	30036727 [†]
	1 g	10344026
	10 g	10344034
Bovine Fetuin, Pederson Method	5 g	10344059
	7.5 g	10344376
	5 g	11020013
	25 g	11020021
AlbuMAX I Lipid-Rich BSA	1 kg	11020039
	100 g	11020062
	500 g	11020070
	5 kg	11020088
	5 g	11021011
	25 g	11021029
AlbuMAX II Lipid-Rich BSA	100 g	11021037
	1 kg	11021045
	5 kg	11021086
	500 g	110210IN
	100 mg	11107018
	1 g	11107026
Bovine Transferrin, Holo Form	25 g	11107047
	5 g	11107059
	10 g	11107067
	100 g	11107075
	1 g	11108016
	10 g	11108024
Bovine Transferrin, Apo Form	100 g	11108032
	5 g	11108051
	25 g	11108066
	10 g	1921004IC
Bovine Transferrin, Apo Form, Ultra Low IgG	5 g	1921004IJ
	100 g	1921004IM
Caprine Immunoglobulin G	5 g	1975400IJ
Ovine Immunoglobulin G	5 g	30027023
	1 g	30031017
	10 g	30031033
Bovine Gamma Globulin	100 g	30031058
	1 kg	30031728
	5 g	30036354
	25 g	30036487
BSA, IgG Free, Fatty Acid Poor	100 g	30036578
	1 kg	30036727
	5 kg	30036781
	25 g	30060487
BSA Fraction V Low Endotoxin	100 g	30060578
	1 kg	30060727

Ordering information (cont.)

Product*	Pack size**	Cat. No.
BSA Fraction V IgG Free	25 g	30063481
	100 g	30063572
	1 kg	30063721
	5 kg	30063788
BSA Fraction V Fatty Acid Poor	5 g	30066351
	25 g	30066484
	100 g	30066575
	1 kg	30066724
AlbuMAX II Lipid-Rich BSA (irradiated)	5 kg	30066781
	100 g	E002000IM
	1 kg	E002000IP
AlbuMAX II Lipid-Rich BSA (20% solution)	5 kg	E002000IQ
	100 mL	E003000PG
	500 mL	E003000Pj
AlbuMAX II Lipid-Rich BSA (20% solution, irradiated)	5 L	E003000PR
	1 L	E003001PK
	5 L	E003001PR
BSA Fraction V Ultra Low IgG	25 g	E014000IL
	100 g	E014000IM
	1 kg	E014000IP
	5 kg	E014000IQ
Equine Hemin	5 g	E141001IJ
	1 g	E141001NZ
Bovine Fetuin, US-Origin FBS	5 g	E212000IC
	1 g	E212000II
	10 g	E212000IJ
	100 g	E212000IM
Porcine Transferrin, Holo Form	5 g	PSB10045IC
	1 g	PSB10045II
	10 g	PSB10045IJ
	25 g	PSB10045IL
	100 g	PSB10045IM
Caprine Immunoglobulin G	1 g	1975400II†
Bovine Gamma Globulin 5% Solution	500 mL	1977000PJ†

* Irradiation of any of these products is also available upon request.

** Additional pack sizes routinely available include 25 g, 100 g, 500 g, and 5 kg.

† Availability of these products is often on a make-to-order basis. Please inquire regarding lead time to fulfill initial testing and longer-term forecasted needs.

 Learn more at thermofisher.com/gibcobsa

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