



ThermoFisher
SCIENTIFIC

Peptone Preview Series Products



70,000

Employees globally



5,000

R&D Scientists/Engineers



\$1B

invested in R&D

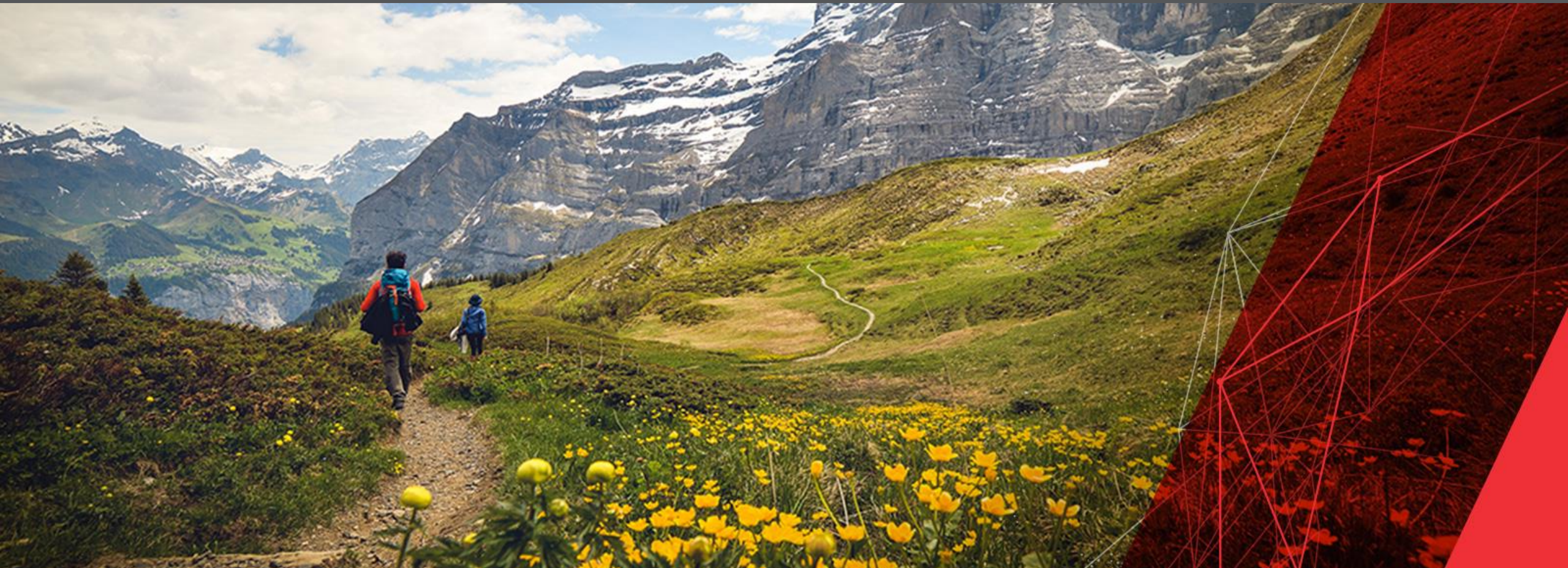


\$>24B

in revenues

The world leader in serving science

A Mission we are proud of



We enable our customers to make the world
healthier, cleaner and safer

A commitment to scientific advancement



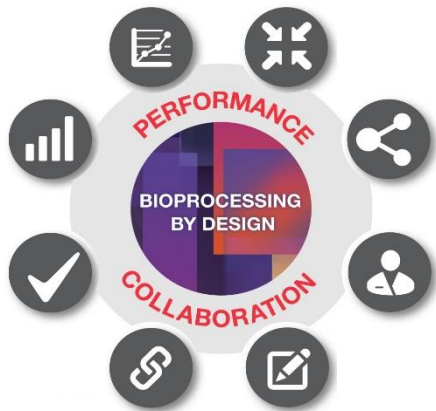
We offer products and solutions that enable customers to push the boundaries of innovation

- Customer focus
- Leading portfolio
- Scale of capabilities

We enable our customers to make the world healthier, cleaner and safer

Life Sciences Solutions

- Genetic Sciences
- Clinical Next Generation Sequencing
- Biosciences
- Laboratory Products
- Laboratory Chemicals
- **BioProduction**
 - **gibco™**
 - **Bacto™** and **Difco™**



Analytical Instruments



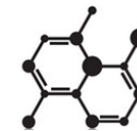
- Chemical Analysis
- Chromatography and Mass Spectrometry
- Materials and Structural Analysis
- Instrument and Enterprise Services

Specialty Diagnostics



- Microbiology
- Anatomical Pathology
- Clinical Diagnostics
- ImmunoDiagnostics
- Healthcare Market
- Transplant Diagnostics

Customer Channels



- Research and Safety Market Division, North America
- Research and Safety Market Division, Europe

Pharma Services



- Clinical Trials
- Drug Development and Commercial Divisions, North America and Europe
- Active Pharmaceutical Ingredient Division, North America & Europe
- Biologics Division
- Softgels Division

Providing New and Innovative Solutions



Difco and Bacto supplements are part of the Gibco cell culture portfolio, which offers a full line of supplements, feeds, and cell culture media for the biotechnology, biopharmaceutical, and animal and human vaccine markets.



The Difco product brand was established in 1895 and represents **more than a century of knowledge** in innovation and design to enhance culture media and supplements.



To date, our peptones and supplements are used in the manufacture of more than **150 biopharmaceutical drugs** in the human and animal health markets with more in development.



We deliver **innovation and product consistency that meets the high-quality standards** our bioproduction customers expect, which exceeds nutraceutical and food grade product standards.



150+
commercial
drugs



15
blockbuster
drugs

Animal Origin–Free Peptones

The Gibco line of animal origin–free peptones and supplements offer a range of optimized nutritional choices to embrace production in both microbial fermentation and mammalian cell culture applications.

Mammalian cell lines



CHO
BHK



Hybridoma
NS0



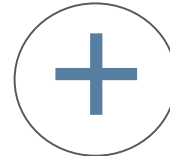
MDCK
MDBK
Vero



HEK293



Sf9
Sf21



Others

Microbial cell lines



Mycoplasma, Escherichia, Streptococcus, Erysipelothrix, Clostridium, Salmonella, and others

Gibco product information

Bacto Yeast Extract

Yeast Extract

Bacto Yeast Extract, Technical

Difco Yeast Extract, UF

Difco Yeast Extract, LD

Bacto TC Yeastolate

Difco TC Yeastolate, UF

Bacto Malt Extract

Phytone Peptone

Difco Phytone Supplement, UF

Difco Soytone

Bacto Soytone

Soy Peptone 100

Wheat Peptone 100 UF

Cotton Peptone 200 UF

Bacto Malt Extract

Animal Origin Peptones

Animal origin peptones provide a rich source of nutrients, helping to increase yield while maintaining protein quality. The Gibco portfolio offers a variety of animal origin supplements, from meat peptones to casein and whey peptones.

Microbial usage



Mycoplasma, Clostridium, Erysipelothrix, Streptococcus, Pasturella, Bordetella, Borrelia, Haemophilus, Pseudomonas, Vibrio, and others

Mammalian usage



CHO



Hybridoma
NS0



Porcine
Kidney
Cells



Others

Gibco product information

Beef Extract Powder	Bacto Tryptose	Bacto Peptone	Bacto Proteose Peptone No. 3
Bacto Beef Extract, Desiccated	Acidicase Peptone	Polypeptone Peptone	BiTek Proteose Peptone No. 3
Difco Beef Extract	Bacto Casamino Acids	Bacto Proteose Peptone	Bacto Proteose Peptone No. 4
Bacto Casamino Acids, Technical	Gelysate Peptone	BiTek Proteose Peptone	Bacto TC Lactalbumin Hydrolysate
Bacto Neopeptone	Biosate Peptone	Bacto Proteose Peptone No. 2	Difco Casamino Acids, Vitamin Assay
Difco Casein Digest	Bacto Casitone	Trypticase Peptone	Bacto/BiTek Tryptone

Gibco™ Peptone Starter Paks



Proven Supplements for BioProduction



Gibco™ Starter Pak No. 1*

Human and Animal
Health Applications



Gibco™ Starter Pak No. 2*

Vaccine
Production



Gibco™ Starter Pak No. 3*

Animal Origin-Free Peptones
for Vaccine Production

*Samples are non-GMP and for evaluation use only. All samples are available as GMP finished goods.

Peptones for Human and Animal Health Applications



Gibco Starter Pak No. 1*



- A combination of animal origin-free yeast and soy based peptones with an established history of use in **vaccines, monoclonal antibodies** and **recombinant protein** production



- The Pak includes five 100g samples:
Difco™ Yeast Extract UF
Bacto™ TC Yeastolate
Difco™ TC Yeastolate, UF
Difco™ Phytone™, UF
Bacto™ Yeast Extract, Technical

*Samples are non-GMP and for evaluation use only. All samples are available as GMP finished goods.

Peptones for Vaccine Production



Gibco Starter Pak No. 2*



- Animal origin-free and animal origin peptones offering many of the **essential nutrients** needed to produce **human** and **animal vaccines**



- The Pak includes six 100g samples:
 - Bacto™ Yeast Extract
 - Difco™ Soytone
 - Phytone™ Peptone
 - Bacto™ Proteose Peptone No. 2
 - Bacto™ Proteose Peptone No. 3
 - Bacto™ Casamino Acids

*Samples are non-GMP and for evaluation use only. All samples are available as GMP finished goods.

Animal Origin-Free Peptones for Vaccine Production



Gibco Starter Pak No. 3*



- These products are ideal for processes in which an **animal origin-free medium** is preferred **without** the requirements for **ultra-filtration**



- The Pak includes six 100g samples:
Bacto™ Malt Extract
Bacto™ Yeast Extract
Gibco Yeast Extract
Bacto™ TC Yeastolate
Phytone™ Peptone
Difco™ Soytone

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Gibco™ Peptone Preview Pak



Gibco Peptone Preview Pak Supplements

Gibco Preview Pak*

New, animal origin-free peptones with unique nutritional profiles, suitable for mammalian and microbial applications

Wheat Peptone 100 UF†

Ultra-filtered supplement that provide a good source of glutamine, which makes it ideal for mammalian cell culture applications

Cotton Peptone 100 UF

Rich in nucleosides, digested to enhance peptide content and processed to provide higher vitamin concentrations, which can help to maintain performance and titers.

Cotton Peptone 200 UF†

Ultra-filtered, rich in nucleoside content and processed to enhance carbohydrate concentrations.

Soy Peptone 100†

A highly digested soy protein peptone, high in nucleosides, free amino acid content, vitamins and carbohydrates.

Yeast Peptone 100

Versatile supplement that increases growth and production characteristics, designed to enhance content of vitamins and other key nutritional components found in yeast.



Gibco Peptone Preview Pak*

Wheat Peptone 100 UF

Cotton Peptone 100 UF

Cotton Peptone 200 UF

Soy Peptone 100

Yeast Peptone 100

*Preview Pak samples are non-GMP and for evaluation use only.

† Available as GMP finished good

Gibco Peptones in bioprocessing

- Deliver reliable, **consistent performance** when partnering with a vendor who specializes in the needs of the **biopharmaceutical industry**.
- Well established, **proven supplements** for enhancing bioprocessing applications, through a variety of mechanisms ranging from nutritional enrichment to suppression of cell death.
- Peptones continue to be widely used for the production of today's **blockbuster biotherapeutic drugs** and the development of the **next generation** of biopharmaceutical innovations.

Animal origin-free &
antibiotic free facility
Miami, FL

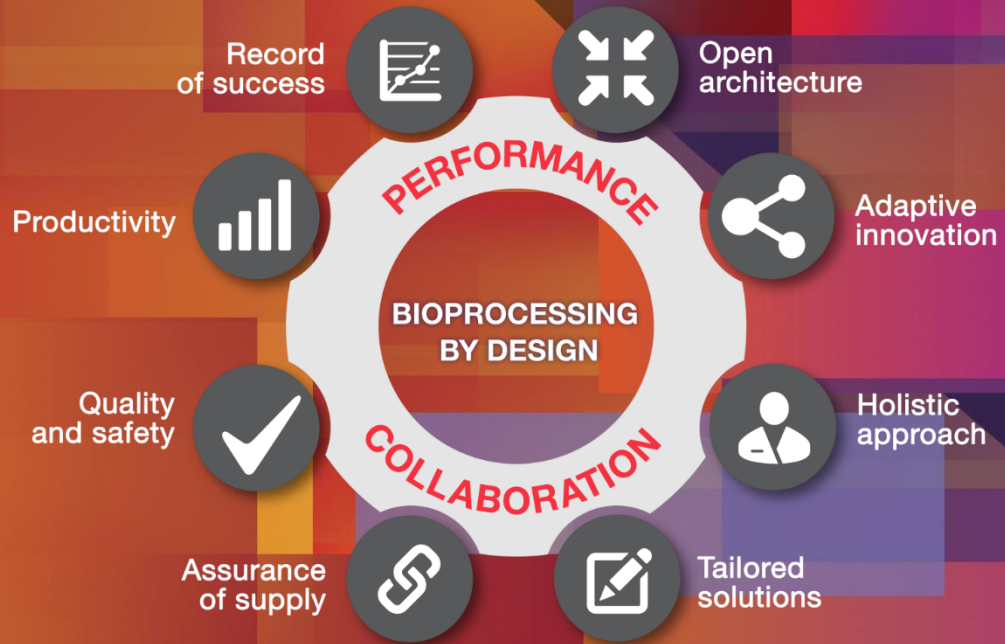
Begin the Conversation With Industry Proven Gibco Peptones

Product	Cat No.	Product	Cat No.	Product	Cat No.	Product	Cat No.
Starter Pak No. 1*	215366	Starter Pak No. 2*	215367	Starter Pak No. 3*	215368	Preview Pak†	215379
Difco™ Yeast Extract, UF Bacto™ TC Yeastolate Difco™ TC Yeastolate, UF Difco™ Phytone™ Supplement, UF Bacto™ Yeast Extract, Technical		Bacto™ Yeast Extract Difco™ Soytone Phytone™ Peptone Bacto™ Proteose Peptone No. 2 Bacto™ Proteose Peptone No. 3 Bacto™ Casamino Acids		Bacto™ Malt Extract Bacto™ Yeast Extract Gibco Yeast Extract Bacto™ TC Yeastolate Phytone™ Peptone Difco™ Soytone		Wheat Peptone 100 UF Cotton Peptone 100 UF Cotton Peptone 200 UF Soy Peptone 100 Yeast Peptone 100	



*Gibco Peptone Starter Pak supplements are non-GMP and for evaluation use only. All samples are commercially available as finished goods manufactured to cGMP standards.

†Gibco Peptone Preview Pak supplements are non-GMP and for evaluation use only. Some components are available as cGMP finished goods.



Let's move forward together

ThermoFisher
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