

Cell culture

Simplify your peptone screening process with Gibco Starter Paks

For more than 100 years, leading pharmaceutical companies have trusted our peptones and supplements to help improve cell performance with higher cell titers and yield.



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Gibco Starter Paks were created with your screening process in mind

Gibco™ Starter Paks provide samples of our most widely used peptones tailored for specific applications, including monoclonal antibodies, recombinant proteins, and vaccines, for use in both mammalian cell culture and microbial fermentation. With the 100 g samples conveniently packaged in a box, you can identify the correct supplements for your specific cell lines faster.

Ultrafiltered peptones ideal for human health applications

Gibco™ Starter Pak No. 1*

Features a combination of yeast- and soy-based peptones. Three of the products in this pack have been ultrafiltered (UF) to reduce endotoxin levels. The yeast products add a mixture of peptides, amino acids, carbohydrates (simple and complex), nucleosides, and vitamins to a medium formulation.

- **Gibco™ Difco™ TC Yeastolate, UF; Gibco™ Bacto™ TC Yeastolate**—Customers have successfully used these peptones in CHO-based applications of biotherapeutic monoclonal antibodies and recombinant proteins.
- **Gibco™ Difco™ Yeast Extract, UF; Gibco™ Bacto™ Yeast Extract, Technical**—These peptones support optimal growth of many microbial species for a variety of human and animal health vaccines.
- **Gibco™ Difco™ Phytone™ Supplement, UF**—This enzymatic digest of soy is a nutritious, excellent source of carbohydrates and is used in mammalian cell culture.

Animal origin-free and animal origin peptones best suited for vaccine production

Gibco™ Starter Pak No. 2*

Offers many essential nutrients needed for the production of human and animal vaccines.

- **Gibco™ Bacto™ Yeast Extract**—Customers have used this supplement, which has the highest level of carbohydrates of our yeast products, in a variety of human and animal health vaccines.
- **Gibco™ Phytone™ Peptone; Gibco™ Difco™ Soytone**—Both enzymatic digests of soy, these peptones also are a nutritious source of carbohydrates. Customers have used them in microbial fermentation processes as well as in mammalian cell culture processes such as CHO.
- **Gibco™ Bacto™ Proteose Peptone No. 2; Gibco™ Bacto™ Proteose Peptone No. 3**—These enzymatic digests of porcine protein provide nutrition for fastidious microorganisms. Bacto Proteose Peptone No. 3 can replace serum in many applications and helps increase monoclonal antibody and recombinant protein production in CHO cells.
- **Gibco™ Bacto™ Casamino Acids**—This supplement has low salt and iron content, making it an excellent supplement for media formulations for which nitrogen requirements are minimal.

Animal origin-free peptones for animal and human vaccine production

Gibco™ Starter Pak No. 3*

Provides a variety of yeast and soy products, ideal for processes when an animal origin-free medium is preferred.

- **Gibco™ Bacto™ Yeast Extract; Gibco™ Yeast Extract**—These peptones contain a mixture of peptides, amino acids, carbohydrates, and vitamins to support optimal growth in microbial species, and are ideal for the production of vaccines.
- **Gibco™ Bacto™ TC Yeastolate**—Customers have successfully used this peptone in CHO-based applications of biotherapeutic monoclonal antibodies and recombinant proteins.
- **Gibco™ Phytone™ Peptone; Gibco™ Difco™ Soytone**—These soy-based supplements provide a nutritious source of carbohydrates for successful use in microbial fermentation processes.
- **Gibco™ Bacto™ Malt Extract**—A water-soluble portion of malted barley, this peptone also provides carbohydrates for a variety of microbial fermentation processes.

* Gibco Starter Paks are non-GMP and for evaluation use only.



Wheat, cotton, soy, and yeast peptones that provide unique nutritional profiles compared to other cell culture supplements

The Gibco™ Peptone Preview Pak

- Easy-to-test pack of animal origin-free peptones
- Unique nutritional profiles
- Cell culture supplements

The Peptone Preview Pak contains:

- **Gibco™ Wheat 100, UF**—An ultrafiltered supplement and good source of glutamine, which makes it ideal for mammalian cell culture applications. It is digested for enhanced peptide content resulting in a low concentration of free amino acids and carbohydrates.
- **Gibco™ Cotton 100, UF**—Rich in nucleoside content and digested to enhance peptide content. It is processed to provide higher concentrations of vitamins, which can help maintain performance in mammalian and microbial processes.
- **Gibco™ Cotton 200, UF**—Ultrafiltered and rich in nucleoside content, processed to enhance carbohydrate concentrations, which is important for some cell culture and microbial processes.
- **Gibco™ Soy 100**—A highly digested soy protein peptone that is high in nucleosides and free amino acid content. It has high concentrations of vitamins and carbohydrates and is recommended for a wide variety of processes.
- **Gibco™ Yeast 100**—Designed to enhance the content of vitamins and other key nutritional components found in yeast. It may be used for nutritional supplementation for mammalian, microbial, and insect cell culture.



Chemically defined, protein-free supplements developed to enhance a variety of base media

The Gibco™ Resurge™ CD Pak

Contains a diverse set of fully chemically defined (CD), animal origin-free and protein-free supplements that complement a variety of base and feed media. Each CD supplement in the pack has a unique chemical profile of nucleosides, amino acids, vitamins, trace elements, and cofactors containing no glucose. Customers have successfully used Gibco™ Resurge™ CD supplements in a number of mammalian and microbial cell lines, including CHO, MDCK, *E. coli*, toxin-producing bacteria, and fungi.



Ordering information

Product	Cat. No
Starter Pak No. 1	215366
Difco Yeast Extract, UF	
Bacto TC Yeastolate	
Difco TC Yeastolate, UF	
Difco Phytone Supplement, UF	
Bacto Yeast Extract, Technical	
Starter Pak No. 2	215367
Bacto Yeast Extract	
Difco Soytone	
Phytone Peptone	
Bacto Proteose Peptone No. 2	
Bacto Proteose Peptone No. 3	
Bacto Casamino Acids	
Starter Pak No. 3	215368
Bacto Malt Extract	
Bacto Yeast Extract	
Yeast Extract	
Bacto TC Yeastolate	
Phytone Peptone	
Difco Soytone	

Ordering information

Product	Cat. No
Peptone Preview Pak	215379
Wheat 100, UF	
Cotton 100, UF	
Cotton 200, UF	
Soy 100	
Yeast 100	
Resurge CD Pak	670030
Resurge CD1 Supplement	
Resurge CD2 Supplement	
Resurge CD3 Supplement	
Resurge CD4 Supplement	
Resurge CD5 Supplement	

 Get more information or order a Starter Pak at thermofisher.com/peptones

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