

Bioproduction

# Bacto CD Supreme FPM Plus and Feed

Chemically defined medium and feed that brings exceptional performance



## Power your fermentation with precision

*Escherichia coli* stands out in biopharmaceutical manufacturing due to its rapid growth and ability to produce high-yield, high-quality pharmaceuticals. This makes it the organism of choice for large-scale production of plasmids, hormones, enzymes, vaccines, and other biopharmaceuticals.

Building on the success of Gibco™ Bacto™ CD Supreme Fermentation Production Medium (FPM), we are expanding the family with two innovative formulations that can help take your fermentation processes to the next level.

Leveraging high-throughput screening arrays, we precisely identified the unique metabolic profiles of several production strains. This allowed us to create a medium tailored to help meet the diverse nutrient requirements of various *E. coli* strains. The result is **Gibco™ Bacto™ CD Supreme FPM Plus and Feed**, a proprietary blend of amino acids, vitamins, salts, and other essential nutrients that enables optimal growth and productivity across a broad spectrum of *E. coli* strains.

Process intensification techniques such as fed-batch cultivation can significantly boost productivity. The **Gibco™ Bacto™ CD Feed (2X)**, the first off-the-shelf chemically defined *E. coli* feed, has the potential to increase biomass and productivity by more than two-fold compared to traditional batch processes.

## Why choose Bacto CD Supreme FPM Plus and Feed?

- **Expanded strain coverage**—supports growth of auxotrophic and non-auxotrophic *E. coli* strains so you don't have to worry about compatibility with your bioprocess
- **Enhanced productivity**—enables up to 159% higher cell growth compared to traditional hydrolysate-containing Invitrogen™ Terrific Broth paired with a lab-prepared chemically defined supplemental feed
- **Consistent performance**—the 100% chemically defined, animal origin-free (AOF) formulation helps reduce lot-to-lot performance variability and contamination risks
- **Ease of use**—available in liquid and dry powder formats to help reduce or eliminate steps in the workflow
- **Scalability**—designed to enable reliable results from small-scale research to full-scale production
- **Increased cell growth**—see up to 74% higher average growth compared to Terrific Broth
- **Higher pDNA titers**—achieve up to a 148% increase in average pAAV2-GFP-ITR plasmid yields in fed-batch cultures

### Specifications

<b>Product type</b>	Chemically defined, AOF, peptone-free
<b>Application</b>	Microbial fermentation
<b>Species/strain for use</b>	<i>E. coli</i>
<b>Shelf life</b>	12 months
<b>Format</b>	Dry powder, liquid
<b>Storage</b>	2–8°C

### Ordering information

Product	Format	Quantity	Cat. No.
Bacto™ CD Supreme Fermentation Production Medium Plus*	Liquid	1 L	A9378401
	DPM	500 g	A9378501
	DPM	10 kg	A9378502
Bacto CD Supreme Feed (2X)	Liquid	500 mL	A9378201
	DPM	250 g	A9378301
	DPM	5 kg	A9378302

\* For Research Use or Further Manufacturing. Not for diagnostic use or direct administration into humans or animals.



Learn more today at [thermofisher.com/bacto-plus](https://thermofisher.com/bacto-plus)

**gibco**

Intended use of the products mentioned varies. For specific intended use statements, please refer to the product label.

© 2026 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified. FLY-12492600 0226