

# Cell Culture Solutions

High-quality specialty ingredients for biopharma applications



# Evonik is a reliable partner to the biopharma industry

Evonik is one of the world's leading specialty chemicals companies, with over 33,000 employees in more than 100 countries and active across 170+ sites. Evonik goes far beyond chemistry to create innovative, profitable and sustainable solutions for customers.

Evonik Health Care's proven ability to address complex customer demands for high-quality cell culture solutions comes from over six decades of industry leadership in amino acids combined with advanced R&D capabilities, strong backward integration and a global reach.

Media providers around the world rely on our cell culture solutions as we offer a unique combination of highly pure ingredients, development expertise and solid manufacturing capabilities.

You can count on us for consistent high quality from gram to metric ton scale, from lab bench to volume production. Our manufacturing sites in Europe and Asia are regularly audited and operate under one global quality system that follows the same standards.

Along with the product, we deliver the peace of mind that comes from working with a reliable partner having trusted manufacturing facilities and technical sales offices near you, wherever you are in the world.

Regardless of your production or clinical application requirements, we are ready to serve as a strong and dependable partner to help you reduce risk, improve robustness and boost productivity.

## Quality is at the core of everything we do

As small differences in raw material quality can have a major impact on efficient cell cultivation, Evonik combines decades-long experience in the manufacture of clinical grade material with strong expertise in biotechnology to provide highly pure cell culture ingredients.

Our extensive Cell Culture portfolio is designed to cover a spectrum of applications from biopharmaceutical R&D and manufacturing to medicinal applications. The highest purity standards are of course imperative to guarantee reproducibility and meet the strictest regulatory standards.

Beyond the fact that we do not use any animal-derived components, our approach to ensuring consistency in terms of quality and reproducible performance builds on a quality system that allows a smooth transfer from R&D to regulated production or clinical applications.

Our production network relies on an excellent degree of backward integration to ensure the highest level of quality control and to offer excellent solutions for your biopharma cell culture applications.

### DISCOVER OUR CELL CULTURE INGREDIENTS AND BOOST YOUR PERFORMANCE

- **Chemically defined specialty ingredients:** peptides, keto acid, lipid and carbohydrates overcoming key challenges in mammalian cell culture
- **Highly purified amino acids:** wide range of amino acids and salts enabling reproducible cell culture media performance
- **Products on demand:** customization of media ingredients for specific formulation requirements
- **Application, regulatory and formulation services:** our strong technical expertise at your disposal

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**All products are animal-origin free and readily available at commercial scale.**

# Spice up your media formulation with the finest ingredients

Non-animal-derived ingredients addressing key challenges in biopharmaceutical cell culture based on our strong expertise across chemistry, biotechnology, product purification and formulation development.

## cQrex® ingredients

Overcome amino acids limitations in media formulation with the chemically defined cQrex® ingredients:

- Intensify and simplify your cell culture processes by meeting the stability and solubility challenges
- Increase your productivity with our performance-enhancing solutions.

### Glutamine peptides

Limit detrimental by-products and improve cell-specific productivity thanks to a stabilized form of glutamine

### Tyrosine peptides

Solubilize up to 60 times more tyrosine in a feed at neutral pH than with the free amino acid

### Cystine peptides

Enhance the cell viability and productivity by relying on a highly soluble form of cystine

### Antioxidants

Protect cells against oxidative stress to enhance their performance

## Amino acids

Discover our wide range of non-animal-derived amino acids:

- Rely on our pharmaceutical-grade products which meet stringent quality and regulatory requirements
- Enhance your cell culture media formulation with highly pure ingredients.

## Carbohydrates

Leverage a higher flexibility in mammalian cell culture:

- Tailor the energy supply by using other carbohydrates than D-Glucose
- Optimize the glycosylation profile of therapeutic proteins.

## Lipids

Supplement your cell culture medium with a plant-derived cholesterol:

- Use synthetic cholesterol with consistent quality instead of animal-based substances
- Improve cell growth and boost the production of biopharmaceuticals.

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