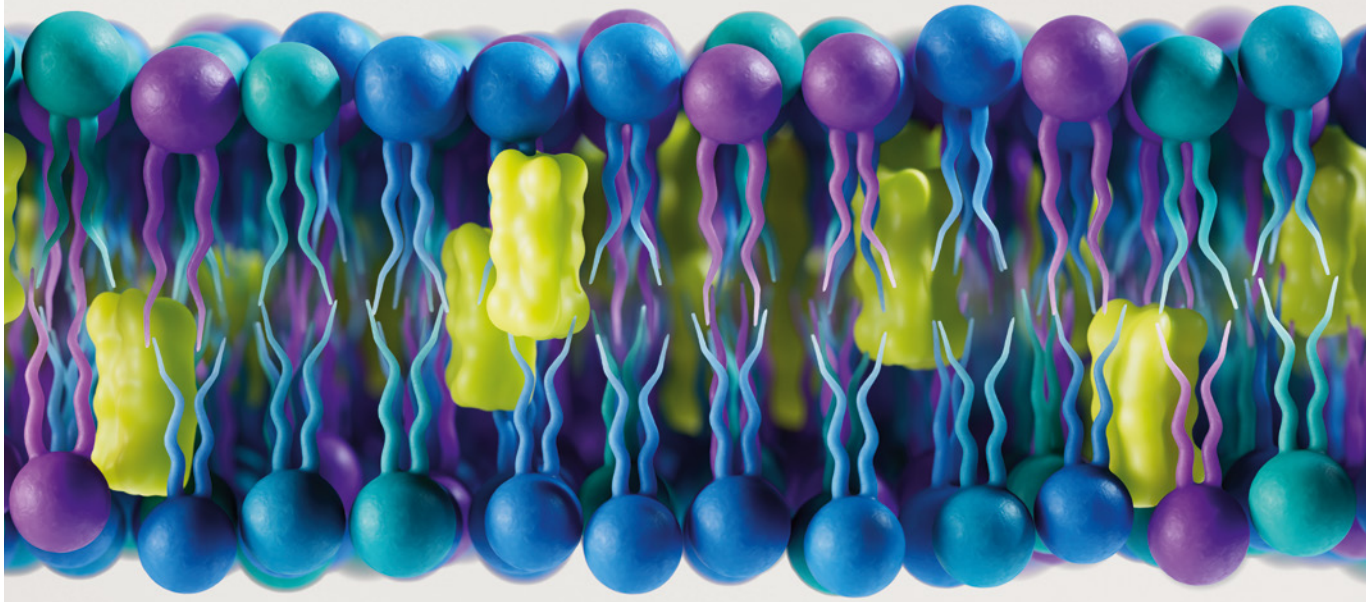
PhytoChol® BioPharma

Non-animal-derived cholesterol for biopharma cell culture



1 **Highly pure powder**

2 **Consistent quality**

3 **Reliable manufacturing**

EVONIK
Leading Beyond Chemistry

PhytoChol® BioPharma

Your trusted source of highly pure and non-animal-derived cholesterol

Cholesterol is one of the most important lipids for life, serving as a structural component of cell membranes. It is a **key ingredient in media used for biopharma cell culture**.

Cholesterol helps to enhance cell growth, improve protein and virus production, and increase infectivity of viruses produced.

Exogenous cholesterol supplementation is particularly relevant for:

- Cholesterol auxotrophic cell lines which are unable to synthesize cholesterol
- Chemically defined media that do not contain fetal bovine serum (FBS) and natural lipids

Traditionally, cholesterol is extracted from animal materials such as sheep wool. However, these sources pose several challenges that can negatively impact cell culture process performance: potential for undesired immunological responses, inconsistent quality and more stringent regulatory control required.

Synthetic cholesterol designed for cell culture applications

As an experienced provider of cell culture solutions, Evonik offers PhytoChol® BioPharma as a synthetic cholesterol especially developed for use in biopharma cell culture.

Supplementing a culture medium with PhytoChol® BioPharma can **enhance outcomes in the production of proteins, viral vectors and vaccines.**

PhytoChol® BioPharma can be utilized in the **culture of a wide range of cell lines**, including:

- NS0 cells
- Insect cells
- Vero cells

Ready to optimize your media formulation?

- → Non-animal-derived cholesterol
- → Highly pure ingredient in powder form
- → Consistent cGMP quality
- → Compliant with Ph. Eur. 0993 and USP-NF
- → Western-based, large-scale manufacturing
- → Diverse formulation options

Beyond providing PhytoChol® BioPharma as a high-quality ingredient, Evonik also provides **application guidelines and recommendations on cholesterol formulations** to increase solubility in the cell culture medium. Before adding to the medium, the powder can for example be dissolved in ethanol and formulated with other lipids and surfactants, depending on intended use. Contact our cell culture experts to learn more!

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