

# Serum-Free Media Supplements



An ideal cell-culture media formulation should have a chemically-defined composition and the capacity to support the growth of specific cell types as well or better than serum-containing media formulations. To attain media with such specifications, we have developed three animal-free culture-media supplement kits, designated **PeproGrow-1**, **PeproGrow-2** and **PeproGrow-3**.

PeproGrow-1 is designed to be used as a supplement to serum-free formulations that can sustain the viable cell growth of adherent mammalian cell lines, and has been tested with HeLa, HEK293 and A549 cells. PeproGrow-2 is designed to promote growth and protein production in NSO cell-culture suspensions. PeproGrow-3 is designed to be used as a

supplement to serum-free cell culture media formulations that can sustain the growth of CHO suspension cultures. All three kits are protein-free and do not contain any animal-derived materials.

The ability to culture cells in the absence of serum not only eliminates a significant source of contamination and variability, but also lowers cost and simplifies downstream processing and purification of culture-derived proteins. Our Media Supplement Kits represent a cost effective way to optimize and expand production of your proteins. All three kits have been pre-tested for viable cell growth and recombinant protein production and contain only certified animal-free components. PeproGrow-1, PeproGrow-2 and PeproGrow-3 formulations are propriety to PeptoTech, Inc.

## Animal-Free Cell Culture Media Supplements Kits

**PeproGrow-1 (Catalogue #700-C100)** is an Adherent Mammalian Cell Formula designed specifically to be used with DMEM/F12 basal media (not offered by PeptoTech) and has been pre-tested with HeLa, HEK-293, and A549 cells. This kit could potentially improve the culturing conditions of other adherent cells, but suitability for cells other than those pre-tested is not guaranteed. Each PeproGrow-1 kit contains enough material to supplement 10L of media and includes:

- 100x Serum Replacement Solution (Catalogue #SR100) containing a defined mixture of rare-metal salts.
- 200x Lipid Mixture Solution (Catalogue #LM200) containing a mixture of animal-free fatty acids and lipids.

**PeproGrow-2 (Catalogue #700-C200)** is an NSO Suspension Formula designed specifically to be used with DMEM/F12 as a basal media, and has been pre-tested in NSO suspension cultures. This formula could potentially improve the culturing conditions of NSO-derived hybridomas, but such suitability is not guaranteed. Each PeproGrow-2

kit contains enough material to supplement 10L of media and includes:

- 100x Serum Replacement Solution (Catalogue #SR100) containing a defined mixture of rare-metal salts.
- 1000x Cholesterol Concentrate Solution (Catalogue #CC300) containing a mixture of animal-free cholesterol and lipids.
- 250x Lipid Carrier Solution (Catalogue #LC400) containing cyclodextrin capable of forming complexes with cholesterol and thereby enhancing its transport and solubility in aqueous solutions.
- 100x Pluronic F-68 Solution (Catalogue #PF500) which renders the cells more resistant to shear force.

**PeproGrow-3 (Catalogue #700-C300)** is designed to be used as a supplement to serum-free cell culture media formulations that can sustain the growth of CHO suspension cultures. PeproGrow-3 is serum-free and does not contain any animal-derived materials. It is intended specifically to be used with DMEM/F12 basal media (Invitrogen catalogue# 10565) and contains enough material to supplement 10L of media.

- Serum Replacement Solution-II (Catalogue #SR110) containing non-animal derived salts, lipid and protein hydrolysates designed to replace serum in CHO culture media.
- 100x Pluronic F-68 Solution (Catalogue #PF500) which renders the cells more resistant to shear-force.

Kit	Catalogue Number	Price
PeproGrow-1 .....	700-C100 .....	£130
PeproGrow-2 .....	700-C200 .....	£130
PeproGrow 3 .....	700-C300 .....	£130