

Bovine Pituitary Extract (BPE)

Cat.No.: E0050

Pack Size: 1mL/10×1mL

Storage/Stability : -20°C for up to 2 years; 4°C for one month.

Product description:

Bovine Pituitary Extract (BPE) is an extract prepared from bovine pituitary glands which is used for primary or stem cell culture in serum-free or serum-reduced conditions where additional supplementation from crude tissue extracts is still required. The extract is used together with other growth factors, hormones and base media to reduce or eliminate serum usage in cultivation of non-fibroblast cell types. BPE is provided as an aqueous solution because lyophilized powder reduces its biological activity.

The raw material used for the manufacturing of BPE is derived from bovines of New Zealand or America origin, where no cases of bovine spongiform encephalopathy (BSE) have been reported.

Main Product Specifications:

1. pH: 7.2±0.2
2. Osmolality: 310±30 mOsmol/kg
3. Total crude protein ≥ 14 mg/mL
4. 0.22µm sterile filtered
5. Appearance: brown to reddish liquid

Features:

1. Consistent and maximum mitogenicity.
2. Great source of growth factors and hormones.
3. Both New Zealand and America origins.
4. Full documentation of sourcing.
5. Sterile liquid and ready to use.

Applications:

1. Growth supplement in serum-free culture medium.
2. Used for cultivation of epithelial and endothelial cells, primary and stem cells.

Suggested working Concentration: Depending on the cell type, recommended concentration: 35-70mg/L (2.5-5mL BPE per liter of medium). An optimized basal medium such as DMEM/F12, MCDB 131, MCDB 154 and MCDB 170 with proper hormone supplementation is required to ensure best results.