

Product: **Bovine Pituitary Extract**
Solution

Catalog #: 500-102

Sterile filtration

This Bovine Pituitary Gland Extract is not sterile as shipped, and must be sterile-filtered before use. This extract, like serum, does form lipoprotein precipitates upon freezing that will make it difficult to filter sterilize in concentrated form unless it is first re-centrifuged for 20 minutes at approximately 13,210g (9,000 rpm in a Sorvall GSA head). Subsequent sterile filtration can be done in either of two ways:

1) After centrifugation, sterilize through filtration by passing the supernatant through a series of sequential filters, i.e. 0.8, 0.45, and finally a 0.22 micron filter (use pre-filters) and then aliquot and freeze. The recommended method for storage is to divide the BPE into 2.5 or 5 ml aliquots for future use and refreeze them. This will minimize the number of freeze-thaws.

2) After centrifugation but before sterile filtering, store the BPE in usable aliquots which can be added directly to the medium. After addition of the BPE, filter the final medium in a 0.22 micron filtration unit in one step (again, with a pre-filter).

The product should be frozen at -20°C.

This prep should provide a crude protein concentration of 14mg/mL after filtration.

We recommend that you run a simple growth assay titrating the BPE in your system to optimize for your use. Please note that additional hormone supplementation is required to ensure the best results.