

PPH302 PODS™ Empty

Description

PODS™ Empty crystals are composed solely of polyhedrin protein which self-assembles into regular, cubic crystals. Thus, these PODS™ crystals do not contain any cargo protein, in contrast to other PODS™ growth factor products, and are intended to be used as negative controls alongside cargo-containing PODS™ crystals. The cross-reactivity of PODS™ Empty crystals has been tested on a variety of cells including mouse ES cells, PC12, fibroblasts, and ETS embryos, and there was no observable interference with the tested cells. Additionally, in-vivo data indicate no inflammatory response to PODS™ Empty crystals in animals.

Length	252 aa
Molecular Weight	29 kDa
Source	<i>Spodoptera frugiperda (Sf9) cell culture</i>
Accession Number	D37771.1

Usage Recommendation

PODS™ Empty crystals display the same physical properties as other PODS™ growth factor products. While PODS™ Empty behave in the same way as other PODS™ crystals, they differ in that they do contain or release cargo protein. They can be used analogous to other PODS™ growth factor products.

Specifications

Alternative Names	Bombyx mori cypovirus polyhedrin protein
Endotoxin Level	<0.06 EU/ml as measured by gel clot LAL assay
Formulation	PODS™ were lyophilized from a volatile solution
AA Sequence	MADVAGTSNRD FRGREQRLFNS EQYNNNSLNG EVSVWVYAYYS DGSVLVINKNS QYKVGISETFK ALKEYREGQHN DSYDEYEVNQS IYYPNGGDARK FHSNAKPRAIQ IIFSPSVNVRT IKMAKGNVSV PDEYLQRSHPW EATGIKYRKIK RDGEIVGYSHY FELPHEYNSIS LAVSGVHKNPS SYNVGSAHNVN DVFQSCDSALR FCNRYWAELEL VNHYISPNAYP YLYINNHSYGV ALSNRQRLLV

Preparation and Storage

Reconstitution	PODS™ proteins crystals may be reconstituted at 200 million PODS™/ml in water. 20% glucose has a buoyant density closer to PODS™ protein crystals and can be useful for aliquoting. PODS™ protein crystals are highly stable when stored in aqueous solution (pH range 6-8).
Stability and Storage	Upon receipt, store at 4°C. PODS™ proteins crystals are stable for at least 1 year when dry and 6 months when resuspended.