

## SPECIFICATION SHEET

**Product Name: Pen m 4**

**Catalog # PM04-A31H**

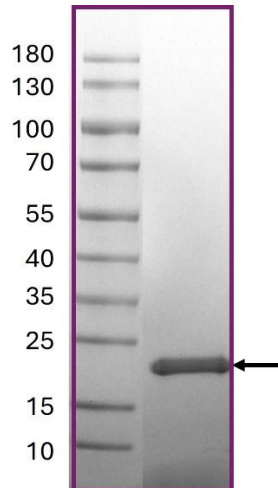
**Product Description:** Recombinant *Penaeus monodon* allergen, Pen m 4, was expressed in *E. coli* and purified by affinity chromatography using a His tag.

**Storage and Stability:** Store at -20°C. To avoid repeated handling and multiple freeze/thaw cycles aliquot diluted product into smaller quantities.

**Data for a Sample Lot:**

**Source** : *Penaeus monodon* (Giant tiger prawn)  
**Accession Numbers** : Genbank: [HM034315](https://www.ncbi.nlm.nih.gov/nuclot/HM034315)  
**Host** : *E. coli*  
**Formulation** : Recombinant protein stored in 1X PBS, 5% trehalose solution  
**Molecular weight** : Calculated: 23.2 kDa  
Observed: ~22 kDa  
**Purity** : The purity was determined to be ≥90% by densitometry

**Gel Image**



**References**

1. Wai C, et al. Comprehending the allergen repertoire of shrimp for precision molecular diagnosis of shrimp allergy. *Allergy*. 77:10-3041, 2022.
2. Li S, et al. Genomics of Shrimp Allergens and Beyond. *Genes*. 14:12-2145, 2023.