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## Product Data Sheet

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Product Name: OmpA S.Enteritidis

Cat. No.: GP24100

Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Outer Membrane Protein-A; OmpA.		
Formulation	PBS.		

### Introduction

The OmpA protein is one of the main outer-membrane proteins of a large array of Gram-negative bacteria such as *A.salmonicida*, *Shigella dysenteriae* and *E.coli*. OmpA has major physiological functions include maintenance of the structural integrity and morphology of the cells and porin activity, as well as a role in conjugation and bacteriophage binding. Achromogenic atypical *Aeromonas salmonicida* is the causative agent of goldfish ulcer disease. Virulence of this bacterium is associated with the production of a paracrystalline outer membrane A-layer protein. The species specific structural gene for the monomeric form of A-protein was cloned into a pET-3d plasmid in order to express and produce a recombinant form of the protein in *E.coli* BL21(DE3). The induced protein was isolated from inclusion bodies by a simple solubilization-renaturation procedure and purified by ion exchange chromatography on Q-Sepharose to over 95% pure monomeric protein. Recombinant A-protein was compared by biochemical, immunological and molecular methods with the A-protein isolated from atypical *A.salmonicida* bacterial cells by the glycine and the membrane extraction methods.

### Stability

OmpA S.Enteritidis Recombinant although stable at 4°C for 1 week, should be stored below -18°C .

### Background

The Recombinant *Salmonella* Enteritidis Outer Membrane Protein A, *E.Coli* derived, 330 amino acids, contains the ompA immunodominant regions. The protein is fused to a His

**Caution: Product has not been fully validated for medical applications. For research use only.**

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tag at C-terminal and purified by standard chromatography techniques.

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