1. PHYSICAL AND CHEMICAL PROPERTIES

   Physical Appearance: White lyophilised solid
   Storage: Store at +4°C

2. ANALYTICAL DATA

   SDS-PAGE: >98%
**Product Information**

**Product Name:** Pertussis Toxin  
**CAS Number:** 70323-44-3

<table>
<thead>
<tr>
<th>Description</th>
<th>Storage: Store the lyophilised solid at +4°C. Once reconstituted store at +4°C. Long term storage of this product in solution is not recommended.</th>
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**Physical and Chemical Properties:**  
Batch Molecular Weight: ~105,700 Daltons  
Physical Appearance: White lyophilised solid

**Solubility & Usage Info:**  
Each vial, when reconstituted to 500μl with sterile distilled water, contains 50μg of protein (0.1μg/μl) in 0.01M sodium phosphate buffer, pH 7.0, with 0.05M sodium chloride. The resulting suspension should be made uniform by gentle mixing prior to use. Do not sterile filter as this will result in loss of material.

**Stability and Solubility Advice:**  
This product should not be frozen. Pertussis toxin can be permanently inactivated by boiling at 100oC for 15-30 minutes.

**Other Information:**  
Please note that this product is not activated. While cells will activate the pertussis toxin if working in an intact system, in a cell free system, activation is required. This can be achieved by pre-incubation of the toxin with high concentrations of dithiothreitol (DTT), see Kaslow et al (1987) for suggested conditions.

If inactivated, this product is not considered hazardous by ingestion; pertussis toxin is degraded by the low pH in the gut and is not absorbed. Take special care when working in conjunction with hypodermic needles. If i.v. or i.m. injection should occur, consult a physician.

**References:**