**Bordetella pertussis** Filamentous Hemagglutinin (FHA)

<table>
<thead>
<tr>
<th>Product No.</th>
<th>Antigen Type</th>
<th>Purity</th>
<th>Strain</th>
<th>Form</th>
<th>Vial Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>QFHA-HP-100</td>
<td>Native</td>
<td>Highly purified antigen</td>
<td>NCTC 10739</td>
<td>Lyophilized</td>
<td>100ug</td>
</tr>
<tr>
<td>QFHA-HP-500</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>500ug</td>
</tr>
<tr>
<td>QFHA-HP-1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1mg</td>
</tr>
</tbody>
</table>

**Typical Certificate of Analysis**

**Description:** Purified FHA from *B. pertussis* strain NC10739 / ATCC 9797. This product is present as 95% in its original 220kDa form, with 5% in the reported breakdown products of 140kDa and 90kDa.

**Product code:** QFHA-HP

**Strain:** NCTC 10739 / ATCC 9797

**Batch number:** 3T13

**Protein conc.:** 0.5mg/ml

**Purity:** >98% by SDS-PAGE

**Presentation:** Lyophilized

**Amount per vial:** 1mg

**Buffer:** Reconstitution of one vial with 2ml distilled water will give a solution containing 1mg FHA in 0.05M Tris-HCl and 0.5M sodium chloride at pH 8, 5% sucrose.

**Storage:** Store lyophilized product at 2-8°C. Store reconstituted product frozen at less than -20°C, preferably -80°C.

**Usage advice:** Avoid repeated freeze/thawing.

**Shipping Conditions:** Cold packs

*For in vitro investigational use only. Not for diagnostic or therapeutic applications.*