

## CERTIFICATE OF ANALYSIS

### Product Information

Product Name: Influenza A H1N1 (A/California/04/2009(H1N1))  
Hemagglutinin, His  
Cat. No.: Z03181-10; Z03181-100  
Lot No.: P40021310  
Size: 10 µg/vial; 100 µg/vial  
Storage Condition: Lyophilized recombinant Influenza A H1N1  
(A/California/04/2009(H1N1)) Hemagglutinin remains stable  
up to 6 months at -80°C from date of receipt. Upon  
reconstitution, HA-H1N1 remains stable up to 2 weeks at 4°C  
or up to 3 months at -20°C.

### Quality Control

| Test Items          | Specifications            | Results   |
|---------------------|---------------------------|-----------|
| Physical Appearance | White Freeze-dried Powder | Conformed |
| Purity (HPLC)       | > 95%                     | Conformed |
| Purity (SDS-PAGE)   | > 95%                     | Conformed |
| Specific Activity   | Data not available        | Conformed |
| Molecular Weight    | 66±6.6 kDa                | Conformed |
| Bacterial Endotoxin | < 1 EU/µg                 | Conformed |

### Caution:

For laboratory use only. Not for household use. If you have any questions about the Certificate of Analysis, please contact our customer service representative at 1-877-436-7274 (Toll-Free), or 1-732-885-9188.

Certified by:  Date: 10/31/2013  
Protein Department