



**Microbix Biosystems Inc.**

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*Product Name:*

## Influenza B Antigen

*Catalogue Number:* EL-14-03

*Storage:* Store this antigen preparation frozen at - 70 °C to - 100 °C. Repeated freezing and thawing should be avoided.

*Hazards:* We are aware of no specific hazards associated with this product. The reagent has been inactivated and should contain no infectious material. However with influenza, the potential for reconstitution of inactivated particles is possible. Handle material as if infectious.

*Strain:* Hong Kong 5/72

*Cultured In:* MDCK Cells

*Buffer:* EMEM

*Agent Description:* Influenza virus is a single stranded RNA virus, with a segmented genome. Virus particles are 70-120 nm diameter, and enveloped. It causes an acute viral disease of the upper respiratory tract characterized by fever, chills, headache, myalgia, weakness, runny nose and mild sore throat; cough can be severe; nausea and vomiting are uncommon; fatality is generally low, except in those with chronic lung or heart conditions.

*Preparation:* Clarified and Concentrated Cell Culture Supernatant

*Inactivation:* Gamma radiation inactivation.

*Recommendations for Use:* Antigen may be slightly cloudy or contain minor precipitate upon thawing. Do not sonicate, and do not clarify prior to dilution at least 10-fold with working buffer.

*Assistance:* If you have any questions regarding the production, testing or use of this antigen, please send them by email to [customer.service@microbix.com](mailto:customer.service@microbix.com) or fax 416-234-1626, with any relevant data, to Microbix Technical Services. Your complete satisfaction with the performance of this product is important to us.

## Quality Control Information

*Product Name:* Influenza B Antigen

*Lot Number:* 14070A3

Microbix performs quality control tests to ensure each batch meets in-house specifications. Test results are provided with each lot of antigen shipped. Antigen users require this information for a number of reasons:

- to maintain a record for good manufacturing purposes,
- to correlate user results with Microbix results and
- for use as a starting point for those just starting with either a new antigen or developing a new assay.

It is important that each user perform titrations of antigen using their own assay as each assay format and serum release panel makes different performance demands on the antigen. Often, use of an antigen may be optimized by making adjustments to concentrations of other assay reagents such as conjugate. Once this is complete the result is cost effective use of the antigen and optimal assay performance.

*Test:*

*Hemagglutination Endpoint Assay:*

*Result:* 27,000 HA units/mL

*Protein Concentration:* Protein is determined using the BioRad dye binding assay in the microassay format. The standard curve is generated with a known concentration of IgG.

*Result:* 1.56 mg/ml

*Inactivation Assay:* The effectiveness of inactivation is determined when no detection of growth in two blind passages under optimal culture conditions. No live virus detected by either CPE or HA Assay.

*Result:* No growth detected



Quality Assurance Signature:

27-September, 2010