



Microbix Biosystems Inc.
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Product Name:

Adenovirus Positive Sample

Catalogue Number: PT-15-01

Storage: Store this preparation at 2°C to 8°C.

Description: This product contains inactivated adenovirus in storage buffer.

Intended use: The product is to be used as a positive test sample in commercially-available clinical antigen test kits, and in non-commercial clinical laboratory tests for the detection of adenovirus antigens. The product is commonly used as a challenge sample in laboratory proficiency testing programs. It is recommended that product is tested according to kit Manufacturer's instructions for testing of clinical samples.

Hazards: We are aware of no specific biological hazards associated with this product. The preparation has been inactivated and should contain no infectious material. Generally accepted good laboratory practices appropriate to biological reagents should be employed in its handling. The buffer solution contains 0.02% sodium azide (CAS No. 26628-22-8) as a preservative.

Strain: Human adenovirus 2, strain Adenoid 6, ICTV 00.001.0.01.010.00.102.006

Cultured in: MRC-5 cells

Agent description: Taxonomy: *Adenoviridae/Mastadenovirus/Human adenovirus C/Human adenovirus 2*. Virions consist of a capsid, fibers, a core, and associated protein(s). Virus capsid is not enveloped, round with icosahedral symmetry. The isometric capsid has a diameter of 70-90 nm. The genome is not segmented and contains a single molecule of linear double-stranded DNA. Adenoviruses most commonly cause respiratory illness; however, depending on the infecting serotype, they may also cause various other illnesses, such as gastroenteritis, conjunctivitis, cystitis, and rash illness.

Preparation: Optimally infected cells are disrupted by sonication and then subjected to low speed centrifugation. The clarified cell lysate is pooled with supernatant from the infected culture.

Assistance: If you have any questions regarding the production, testing or use of this antigen, please send them together with any relevant data to Microbix Technical Services, at Customer.Service@Microbix.com or fax 905-361-8911. Your complete satisfaction with the performance of this product is important to us.

Quality Control Information

Product name: Adenovirus positive sample

Lot number: 130911

| Test Kit | Target | Result |
|--|-----------------------------|----------------------------------|
| Combi-Strip (Rota and Adeno) Catalogue # C-1004 | Rotavirus & Adenovirus | Positive (Rotavirus negative) |
| Rota/Adeno Combi Stick Catalogue # PLR-5192 | Rotavirus & Adenovirus | Positive (Rotavirus negative) |
| SAS Adeno Test Catalogue # 067020 | Adenovirus | Positive |
| Quick Vue Influenza A & B Catalogue # 20183 | Influenza A & Influenza B | Negative |
| Xpect RSV Catalogue # R24601 | Respiratory Syncytial Virus | Negative |
| Quick Vue Chlamydia Catalogue # OB006 | Chlamydia | Negative |

Inactivation: Adenovirus antigen is inactivated using gamma radiation. This procedure is effective primarily by damaging viral DNA. The effectiveness of inactivation is tested by inoculating a suitable cell line monolayer with antigen. The culture is monitored for cytopathic effect for 5 days. If no sign of infection is observed the culture is passaged into a fresh monolayer. The second passage is monitored for a further 5 days. An absence of cytopathic affect, within the limit of the assay, indicates the inactivation of the antigen.

Result: No viral replication detected.

Quality Control Summary: This lot meets specifications and is released for shipment.

Expiry Date: 09-January, 2012

Quality Assurance Signature

23-September, 2011