ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

Cat # ADV65-N | Adenovirus (strain Adenoid 6) type 2, semi-pure viral lysate (antigens, host MRC-5 cells) | Size: 0.25 ml

Adenoviruses (members of the family Adenoviridae) are medium-sized (90–100 nm), nonenveloped viruses with an icosahedral nucleocapsid containing a dsDNA genome. The adenovirus is a ubiquitous pathogen of humans and animals. Adenoviruses are also known to cause respiratory infections in horses, cattle, pigs, sheep, and goats. Adenoviruses have a broad range of vertebrate hosts; there are 57 accepted human adenovirus types (HAdV-1 to 57) in seven species (Human adenovirus A to G; Genus Mastadenovirus (including all human adenoviruses); type species: Human adenovirus C) have been found to cause a wide range of illnesses, from mild respiratory infections in young children to life-threatening multi-organ disease in people with a weakened immune system. Adenoviruses are endemic in all populations throughout the year. The infection is spread both through the aerial-droplet route and the routes characteristic for intestinal infections. Adenoviruses mainly infest respiratory and intestinal mucosa, but also the cornea. They are accumulated in the epithelial cells and regional lymph nodes. Adenoviruses cause the widest variety of illnesses of the known respiratory viruses. The adenovirus infection is the most frequently caused viral disease of the respiratory tract among preschool children (types 1 - 5 and 7). Pneumonia is the most severe form of adenoviral infection occurring mostly in infants below the age of one.

An acute adenoviral infection can be detected by virus isolation and/or serology. The infection is necessary to document infection. IgG is the predominant antibody class measured in the serologic tests. Adenoviruses represent the largest nonenveloped viruses. They are able to be transported through the endosome (i.e., envelope fusion is not necessary). The virion also has a unique "spike" or fiber associated with each penton base of the capsid that aids in attachment to the host cell via the receptor on the surface of the host cell. Adenoviruses have long been a popular viral vector for gene therapy due to their ability to affect both replicating and non-replicating cells, accommodate large transgenes, and code for proteins without integrating into the host cell genome.

Source: MRC-5 Cells
Strain: Adenoid 6

Format: Lysate, Liquid

Purification: 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 and concentrated by cross flow ultrafiltration with a 30,000 molecular weight cut-off.

Buffer: MEM

Preservative: None

Applications: The antigen preparation should be sonicated immediately prior to use to ensure that the preparation is uniform. Grade 2 antigen is suitable for use for both IgG and IgM detection in assays which include EIA with polystyrene and latex solid phases. This preparation may be further purified to meet the needs of a particular assay format. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

Inactivation: Gamma radiation. This procedure is effective primarily by damaging viral genetic material.

Storage

Upon receipt, store at -70°C. Avoid multiple freeze/thaw cycles.

Stability: ~12 months at -70ºC.

*This product is for In vitro research use only.

Related material available from ADI

Catalog#	Prod Description
950-100-AHA	Human Anti-Human Adenovirus (hAd5 hxn) IgA ELISA kit, 96 tests, Quantitative
950-110-AHG	Human Anti-Human Adenovirus (hAd5 hxn) IgG ELISA kit, 96 tests, Quantitative
950-120-AHM	Human Anti-Human Adenovirus (hAd5 hxn) IgM ELISA kit, 96 tests, Quantitative
HCLS-17010	293 Cell Slide (Human (embryonal) kidney transformed by sheared human adenovirus 5 (Ad 5) DNA) (5 slides/pk)
950-130-AMG	Mouse Anti-Human Adenovirus (hAd5 hxn) IgG ELISA kit, 96 tests, Quantitative
950-140-AMM	Mouse Anti-Human Adenovirus (hAd5 hxn) IgM ELISA kit, 96 tests, Quantitative
ADV11-A	Anti-Adenovirus type 2, hexon IgG (reacts with 1-7a, 8, 31, 40-41)
ADV11-BTN	Anti-Adenovirus type 2, hexon IgG-Biotin conjugate
ADV11-FITC	Anti-Adenovirus type 2, hexon IgG-FITC conjugate
ADV11-HRP	Anti-Adenovirus type 2, hexon IgG-HRP conjugate
ADV12-M	Monoclonal Anti-Adenovirus (many istoypes) hexon IgG
ADV12-FITC	Monoclonal Anti-Adenovirus (many isotypes) IgG-FITC conjugate
ADV13-M	Monoclonal Anti-Adenovirus type 40 IgG, aff pure
ADV14-M	Monoclonal Anti-Adenovirus type 41 IgG, aff pure
ADV15-M	Monoclonal Anti-Adenovirus type 40/41 IgG, aff pure
ADV17-M	Monoclonal Anti-Adenovirus type (pan, reacts with all human serotypes) IgG, aff pure

ADV65-N 151211A

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