

Purified Adenoviruses Type 5 Particles

Antigen (Ad Type 5)

Cat. No: DAG153

Lot.No: (See product label)

PRODUCT INFORMATION

Product Overview: Purified Adenoviruses 5 Particles by heat treatment at 54°C for 2 hours

Product Form: Purified adenovirus type 5 particles

Target Species: Viral

Format: Purified

Activity: This product has been rendered inactive by standard procedures. However this material should still be handled as infectious and should be disposed of appropriately.

Approx. Protein Concentrations: Total protein concentration 0.47 mg/ml

Preparation: Adenovirus type 5 antigen is collected from both the cell and supernatant phases of tissue culture. The antigen is harvested by disrupting optimally infected monolayers in tissue culture medium. Particles are purified by double caesium chloride centrifugation, providing an ultrapure preparation. The antigen preparation is inactivated by heat treatment at 54°C for 2 hours. Inactivity is confirmed by growth on 293 cells for two weeks with no CPE seen.

Applications: ELISA

REFERENCES

1. Martin, Malcolm A.; Knipe, David M.; Fields, Bernard N.; Howley, Peter M.; Griffin, Diane; Lamb, Robert (2007). Fields' virology. Philadelphia: Wolters Kluwer Health/Lippincott Williams & Wilkins. pp. 2395.
2. Robinson CM, Singh G, Henquell C, Walsh MP, Peigue-Lafeuille H, Seto D, Jones MS, Dyer DW, Chodosh. Computational analysis and identification of an emergent human adenovirus pathogen implicated in a respiratory fatality. J. Virology. 2011 Jan 20;409(2):141-7.

BACKGROUND

Introduction: Adenoviruses are DNA viruses generally widespread in nature that are frequently the cause of acute upper respiratory tract infections (i.e. common colds). Forty-seven known serotypes have been isolated since they were first discovered in 1953 with 3 types known to cause gastroenteritis. Several types have oncogenic potential though most cause self-limiting febrile illnesses characterised by inflammation of conjunctivae and the respiratory tract. The virus can be isolated from the majority of tonsils/adenoids surgically removed, indicating latent infections. It is not known how long the virus can persist in the body, or whether it is capable of reactivation after long periods. In patients experiencing immunosuppression (e.g. AIDS) it can be reactivated causing disease.

Keywords: Adenoviridae; Atadenovirus; Aviadenovirus; Ichtadenovirus; Mastadenovirus; Siadenovirus; Adenoviruses; Adenoviruses 5; Adenoviruses 5 Purified Particles; Adenoviruses 5 antigen; Ad

PACKAGING

Buffer Solution: Phosphate buffered saline with Ca/Mg

Preservative Stabilisers: 0.09% Sodium Azide (NaN₃). 7.5% Sucrose

Shelf Life: 18 months from date of despatch.

Storage: Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein.