

QuickTiter Adenovirus Titer Assay Kit

QuickTiter Adenovirus Titer Immunoassay Kit

CATALOG #
AAA44607

PRODUCT SYNONYMS

QuickTiter Adenovirus Titer; QuickTiter Adenovirus Titer Immunoassay Kit; QuickTiter Adenovirus Titer assay kit

PRODUCT SPECIFICATIONS

Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Upon receipt, store the Ad-beta-gal Positive Control at -80 degree C. Store all other kit components at 4 degree C until their expiration dates.

ADDITIONAL INFORMATION

Related Product Information for QuickTiter Adenovirus Titer assay kit	Background: Recombinant adenoviruses have tremendous potential in both research and therapeutic applications. There are numerous advantages they provide when introducing genetic material into host cells. The permissive host cell range is very wide. The virus has been used to infect many mammalian cell types (both replicative and non-replicative) for high expression of the recombinant protein. Recombinant adenoviruses are especially useful for gene transfer and protein expression in cell lines that have low transfection efficiency with liposome. After entering cells, the virus remains epichromosomal (i.e. does not integrate into the host chromosome so does not activate or inactivate host genes). Recently, recombinant adenoviruses have been used to deliver RNAi into cells. HEK 293 cells or their variants are used as host cells for viral amplification. Recombinant adenoviruses can be grown at high titer (1010 VP (viral particles)/mL, which can be concentrated up to 1013 VP/mL) and purified by ViraBind™ Adenoviral Purification Kit or traditional CsCl ultracentrifugation. A particular challenge in the delivery of a gene by a viral vector is the accurate measurement of virus titer. Traditionally, infectivity particles are measured in culture by a plaque-forming unit assay (PFU) that scores the number of viral plaques as a function of dilution. These methods are time-consuming (10 days), require a long infection period, and suffer from a high degree of inter-assay variability and are affected by virus-cell interactions. QuickTiter™ Adenovirus Titer Immunoassay Kit utilizes an antibody against adenovirus hexon proteins to visualize infected cells by immunocytochemistry staining. The hexon proteins are the largest and most abundant of the structural proteins in the adenovirus capsid, and they are distributed symmetrically to form capsid facets. QuickTiter™ Adenovirus Titer Immunoassay Kit provides a quick and complete system to functionally titer virus infectivity. The kit provides sufficient reagents for up to 100 titrations in a 24-well plate. In contrast to the 10-day infection of a classical plaque assay, the kit only requires a 2- day infection. The kit antibody against hexon protein recognizes all 41 serotypes of adenovirus by immunocytochemistry and can be used with any adenovirus system as long as the virus is able to amplify in HEK 293 cells.
Product Categories/Family for QuickTiter Adenovirus Titer assay kit	Viral Expression ; Adenoviral Expression ; Adenovirus Quantitation/Titer ; Adenovirus Functional Titer Kits

References

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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/assay-kits/quicktiter-adenovirus-titer/44607>