

## Product Information

### Mouse Adenovirus-2 (K87 Strain) Set

Concentrated liquid antigen produced *in vitro* with coordinating cell line control antigen

Catalog Number **BR81023S**

Synonyms: MAd-2, K87

#### Product Description

Mouse Adenovirus-2 (K87 strain) is a double stranded DNA virus that belongs to the *Adenoviridae* family.

Mouse Adenovirus-2 (K87 strain) is thought to be a distinct species from the Mouse Adenovirus-1 (FL Strain). Mice are the primary host of Mouse Adenovirus-2 (K87 Strain); infections in rats are suspected. Transmission is by direct contact. There are no clinical signs during natural infections. Symptoms have been observed from experimental infection, though the presence of these clinical signs is dependent on the mouse stock or strain.<sup>1</sup>

Liquid antigen for Mouse Adenovirus-2 (K87 strain) is produced in CMT-93 cells. Viral proteins are harvested from cell cultures and inactivated during processing.

This product has been tested in ELISA applications. When diluted sera is added to test wells coated with liquid antigen and control antigen, antibodies to Mouse Adenovirus-2 (K87 Strain) antigen will only bind in the antigen-coated wells. Labeled conjugate antibody will then allow for the detection of these antibodies through a chromogenic reaction with a substrate.

#### Reagent

Supplied as frozen liquid.

Mouse Adenovirus-2 (K87 Strain) Antigen contains viral and cellular proteins in HEPES Buffered Saline Solution (10 mM HEPES, pH 7.2, 140 mM NaCl, 1 mM MgCl<sub>2</sub>).  
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Cell Line Control Antigen for Mouse Adenovirus-2 (K87 Strain) contains only cellular proteins in HEPES Buffered Saline Solution (10 mM HEPES, pH 7.2, 140 mM NaCl, 1 mM MgCl<sub>2</sub>).  
Catalog No. BR81023C

#### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

This product is not intended to be used as a diagnostic product.

#### Storage/Stability

Store in a non-cycling freezer at -60°C or below. Storage temperature of -80°C is preferable. Avoid repeated freezing and thawing, as product degradation may result. Coated plates can be sealed and frozen at -80°C ± 20°C for up to 6 months.

#### Procedure

**Note:** Recommended dilutions are provided on the lot specific Certificates of Analysis.

1. Dilute antigen in Coating Buffer at recommended dilution and plate 100 µL per well in odd-numbered columns of the Immunoassay plate.
2. Dilute control antigen in Coating Buffer at recommended dilution and plate 100 µL per well in even-numbered columns of the Immunoassay plate.
3. Cover the plate and incubate overnight at 4°C.
4. Aspirate liquid from all wells.
5. Wash plate three times with wash buffer.
6. Dilute controls to appropriate working dilution.
7. Also prepare 1:50 dilutions of test samples.
8. Add 100 µL of diluted controls and diluted samples to appropriate wells.
9. Incubate the plate, covered, at 37°C for 1 hour.
10. Aspirate liquid from all wells.
11. Wash plate three times with wash buffer.
12. Add 100 µL per well of conjugate antibody diluted according to manufacturer's recommendations. Incubate the plate, covered, at 37°C for 1 hour.
13. Aspirate liquid from all wells.
14. Wash plate three times with wash buffer.
15. Add 100 µL per well of chromogen substrate according to the manufacturer's recommendations.
16. Read the plate after the positive control reaches the desired net OD value.

**Note:** In order to obtain best results in different techniques and preparations we recommend determining cut-off values through the evaluation of known negative and positive samples.

#### **Recommended Reagents**

- Coating Buffer: Carbonate/bicarbonate buffer (0.035 M NaHCO<sub>3</sub>; 0.016 M Na<sub>2</sub>CO<sub>3</sub>)
- Plate Type: Immulon 2HB Flat Bottom 96-well Immunoassay Plate
- Wash Buffer: 0.15 M NaCl in Reagent Grade/Distilled H<sub>2</sub>O + 0.2% TWEEN<sup>®</sup> 20
- Conjugate Antibody: Goat Anti-Rodent (appropriate species) IgG-Peroxidase

#### **References**

1. Baker, DG. *Natural Pathogens of Laboratory Animals: Their Effects on Research*. Washington D.C.: ASM Press; 2003. 385 pp

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