



## A549 HCP ELISA kit (DEIABL475)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

**Size** 96T

#### Intended Use

This kit is intended for use in determining the presence of protein contamination from the human cell line A549 in products manufactured by recombinant expression in A549 host cells. The kit is for Research and Manufacturing Use Only and is not intended for diagnostic use in humans or animals.

#### Principles of Testing

The A549 HCP assay is a two-site immunoenzymetric assay. Samples containing A549 HCPs are reacted in microtiter strips coated with an affinity purified capture antibody. A second horseradish peroxidase (HRP) enzyme labeled anti-A549 antibody is reacted simultaneously resulting in the formation of a sandwich complex of solid phase antibody - HCP - enzyme labeled antibody. The microtiter strips are washed to remove any unbound reactants. The substrate tetramethyl benzidine (TMB) is then reacted. The amount of hydrolyzed substrate is read on a microtiter plate reader and is directly proportional to the concentration of A549 HCPs present.

#### Reagents And Materials Provided

Anti-A549:HRP: Affinity purified goat antibody conjugated to HRP in a protein matrix with preservative. 1x12mL

Anti-A549 coated microtiter strips: 12x8 well strips in a bag with desiccant

A549 HCP Standards: Solubilized A549 HCPs in a bovine serum albumin matrix with preservative. Standards at 0, 2, 8, 25, 75, and 200ng/mL. 1 mL/vial

Stop Solution: 0.5N sulfuric acid. 1x12mL

TMB Substrate: 3,3',5,5' Tetramethylbenzidine. 1x12mL

Wash Concentrate (20X): Tris buffered saline with preservative. 1x50mL

#### Storage

- \* All reagents should be stored at 2°C to 8°C for stability until the expiration date printed.
- \* The substrate reagent should not be used if its stopped absorbance at 450nm is greater than 0.1.
- \* Reconstituted wash solution is stable until the expiration date of the kit.

#### Sensitivity

The lower limit of detection (LOD) defined as that concentration corresponding to a signal two standard deviations above the mean of the zero standard is 0.5ng/mL.

The lower limit of quantitation (LOQ) defined as that concentration where concentration

coefficients of variation (CVs) are <20% is 1.6ng/mL.

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