



# CHO HCP ELISA kit, Type A (DEIABL478)

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 Chinese Hamster Ovary (CHO) protein contamination in products manufactured by recombinant expression in CHO 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 CHO Host Cell Protein assay is a two-site immunoenzymetric assay. Samples which may contain CHO proteins are reacted with an affinity purified alkaline phosphatase labeled antibody. This reaction either takes place in a test tube in a sequential assay mode or simultaneously in microtiter wells coated with an anti-CHO HCP capture antibody. The two-step sequential protocol or the one step simultaneous protocol result in the formation of a sandwich complex of solid phase (capture) antibody-CHO protein-enzyme labeled antibody. The microtiter strips are then washed to remove any unbound reactants. The substrate p-nitrophenyl phosphate (PNPP) is then reacted. The amount of hydrolyzed substrate is read on a microtiter plate reader and will be directly proportional to the concentration of CHO proteins present.

### Reagents And Materials Provided

Anti-CHO:Alkaline Phosphatase: Affinity purified goat antibody conjugated to alkaline phosphatase in a protein matrix with preservative. 1x22mL

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

CHO Standards: Detergent solubilized CHO proteins in a bovine serum albumin matrix with preservative. Standards at 0, 1, 4, 20, 75 and 250ng/mL. 1.5 mL/vial

PNPP Substrate: p-nitrophenyl phosphate in a Diethanolamine buffer with preservative. 1x22mL

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 absorbance at 405nm is greater than 0.4.
- \* Reconstituted wash solution is stable until the expiration date of the kit.

### Sensitivity

The lower limit of detection (LOD) is defined as that concentration corresponding to a signal two standard deviations above the mean of the zero standard. The LOD is 400pg/mL for the High

Sensitivity Protocol and 1.7ng/mL for the Rapid Protocol. The lower limit of quantitation (LOQ) is ~1ng/mL for the High Sensitivity Protocol and ~4ng/mL for the Rapid Protocol.

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