



## User's Manual

# MRC5 HCP ELISA kit



DEIABL487



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

For illustrative purposes only. To perform the assay the instructions for use provided with the kit have to be used.

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### Creative Diagnostics

 Address: 45-1 Ramsey Road, Shirley, NY 11967, USA

 Tel: 1-631-624-4882 (USA) 44-161-818-6441 (Europe)  Fax: 1-631-938-8221

 Email: [info@creative-diagnostics.com](mailto:info@creative-diagnostics.com)  Web: [www.creative-diagnostics.com](http://www.creative-diagnostics.com)

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## PRODUCT INFORMATION

### Intended Use

This kit is intended for use in determining the presence of MRC5 host cell protein contamination in products manufactured by recombinant expression in MRC5 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 MRC5 assay is a two-site immunoenzymetric assay. Samples containing MRC5 HCPs are reacted in microtiter strips coated with an affinity purified capture antibody. A second horseradish peroxidase (HRP) enzyme labeled anti-MRC5 antibody is also reacted, 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 MRC5 HCPs present.

### Reagents And Materials Provided

Anti-MRC5:HRP: Affinity purified goat antibody conjugated to HRP in a protein matrix with preservative. 1x12mL

Anti-MRC5 coated microtiter strips: 12x8 well strips in a bag with desiccant

MRC5 HCP Standards: Solubilized MRC5 HCPs in bovine albumin with preservative. Standards at 0, 5, 20, 75, 200, and 500ng/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) is defined as that concentration corresponding to a signal two standard deviations above the mean of the zero standard. LOD is ~1.8 ng/mL.

The lower limit of quantitation (LOQ) is defined as the lowest concentration, where concentration coefficients of variation (CVs) are <20%. The LOQ is ~5 ng/mL.