

CHO Host Cell Proteins ELISA Kit

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CATALOG #
AAA210631

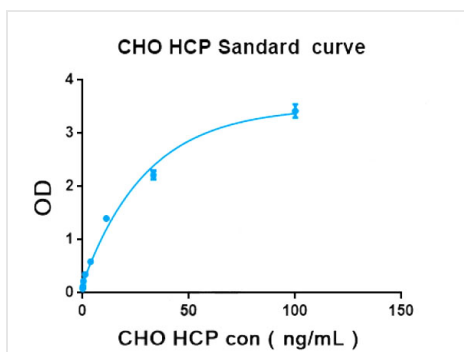
PRODUCT SYNONYMS

CHO Host Cell Proteins; CHO Host Cell Proteins ELISA Kit; CHO Host Cell Proteins elisa kit

PRODUCT SPECIFICATIONS

Specificity	HCPs from Vero, E.coli and Yeast HCP have been used as samples to test the cross reactivity. No obvious cross reactivity has been observed between CHO HCP and Vero, E.coli and Yeast HCP.
Assay Type	Quantitative Sandwich
Sensitivity	0.31ng/ml;
Preparation and Storage	Store at 2 to 8 degree C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CHO Host Cell Proteins elisa kit

Background: CHO cell line is widely used in the expression of therapeutic protein, which is a cost-effective method for the production of commercial quantities of a drug substance. One of the goals in designing a downstream process for biopharmaceutical products is to remove any possible contaminants, including host cell proteins. HCPs can still be present at significant concentrations following several purification steps and can even be co-purified and concentrated with the drug substance itself. HCP in the products will result in adverse toxic or immunological reactions which compromise product safety and quality. This is desirable to reduce the host cell protein contamination to the lowest level. Therefore, during the development of a downstream process, suitable assays must be available to determine the amount of HCP present. This highly sensitive ELISA kit has been successfully validated for a range of drug substances. It can be used for the quantification of CHO HCP proteins in routine bioprocess operations, from the very crude harvest material to the final product.

Principle of the Assay: CHO HCP ELISA kit applies the quantitative sandwich enzyme immunoassay technique. The microtiter plate has been pre-coated with a polyclonal antibody specific for CHO HCP. Standards or samples are then added to the microtiter plate wells and CHO HCP if present, will bind to the antibody pre-coated wells. To quantitatively determine the amount of CHO HCP present in the sample, a standardized preparation of horseradish peroxidase (HRP)-conjugated polyclonal antibody, specific for CHO HCP added to each well to "sandwich" the CHO HCP immobilized on the plate. The microtiter plate undergoes incubation, and then the wells are thoroughly washed to remove all unbound components. Next, substrate solutions are added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period. Only those wells that contain CHO HCP and enzyme-conjugated antibodies will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CHO HCP concentration in each sample is interpolated from this standard curve.

Intended Uses: This kit is used for determining host cell protein (HCP) contamination in products manufactured by expression in the CHO cell line. The kit is for Research and Manufacturing. Use Only and is not intended for test use in humans or animals.

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://stage.aaabiotech.com/elisa-kits/cho-host-cell-proteins/210631>