

CHO | 360-HCP ELISA

As a world first, BioGenes has developed an enhanced generic host cell protein (HCP) assay, CHO|360-HCP ELISA, with improved HCP detection capabilities. This new ELISA covers a broader spectrum of CHO HCPs than other commercially available kits. For the first time, users can easily choose the antibodies that work best for a specific process.

Enhanced Generic HCP Assay for CHO Cells

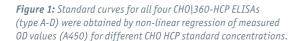
CHO|360-HCP ELISA is based on a unique assay design employing differently prepared HCP antigens and antibodies from two species. As a result, CHO|360-HCP ELISA comes along with four ELISA kit types (A to D). The Starter Set provides users with all necessary components to fast and easily compare the performance of the four ELISA kits and choose the most appropriate kit type for a specific process.

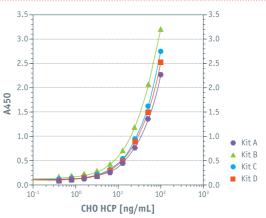
- → Antigen is prepared from total and fractionated HCP
- → Specific antibodies are generated by immunizing goats and rabbits
- → User identifies the most suitable ELISA kit type (A, B, C or D)
- → All subsequent tests are performed with the optimal ELISA kit
- \rightarrow Order the Starter Set today.



Sensitivity of CHO|360-HCP ELISA kit types (A to D)

- · LOD between 0.5 1.0 ng/mL
- · LOQ between 2 3 ng/mL
- · Working range 2 100 ng/mL







HCP Recovery Strongly Depends on the Type of ELISA Kit Used

There is no one generic HCP ELISA suitable for all samples and users are well advised to test different kits before making their choice.

To exemplify, we tested the four CHO|360-HCP ELISA kit types (A to D) and a commercially available generic CHO HCP assay on the basis of a great number of mock CHO HCP samples. Figure 2 shows that in most cases the best recovery was estimated with one of the four CHO|360-HCP ELISA kit types (A to D). In the case of sample 4, a recovery of > 90% was estimated with ELISA kit type D while ELISA kits A, B and C as well as the commercial kit were less sensitive with the latter recognizing only 20% of the host cell proteins.

Performance Study

In alternative to using the Starter Set, BioGenes offers the testing of your CHO HCP containing samples as a service and recommends the most appropriate kit for your specific process as part of a Performance Study.

To obtain a higher level of assurance that the HCP antibodies are fit for purpose, BioGenes also offers a 2D analysis of mock CHO HCP using the DIGE technology. 2D analysis allows obtaining an estimate of the coverage of the HCP antibodies to the total host cell proteins present in a specific CHO cell line.

HCP recovery depends on ELISA kit types

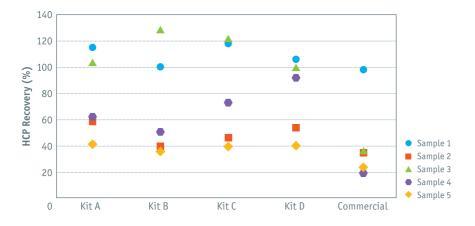


Figure 2: Selected mock CHO HCP samples were tested using five different CHO HCP assays: CHO]360-HCP ELISA kit types (A to D) and a commercially available generic CHO HCP assay. Recoveries higher than 100% are based on overestimation.