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(54) Title: METHOD FOR DETECTING CONTAMINATING CARBOXYLESTERASE ACTIVITY

(57) Abstract: The present invention relates to a method for detecting carboxylesterase activity of contaminating host cell protein in a sample comprising a recombinant protein of interest produced in a eukaryotic cell in cell culture comprising contacting the sample with the hydrophilic substrate HPTS ester and optionally in addition separately contacting the sample with a lipophilic substrate 4-MU ester and detecting the carboxylesterase and optionally lipase activity of the at least one contaminating host cell protein using the hydrophilic and optionally lipophilic substrate by detecting the fluorescence intensity of the released chromophore. Further provided is a method for manufacturing a recombinant protein of interest comprising using the method for detecting carboxylase activity of a contaminating host cell protein in a sample comprising a recombinant protein of interest produced in a eukaryotic cell in cell culture using a hydrophilic substrate and optionally further a lipophilic substrate for determining contaminating carboxylesterase and/or lipase activity in the sample comprising the recombinant protein of interest during manufacture.



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