

Title (en)
PH-INDICATOR BASED ASSAY FOR SELECTIVE ENZYMES

Title (de)
VERFAHREN ZUM QUANTITATIVEN "SCREENING" VON HYDROLASE-"LIBRARIES" UNTER VERWENDUNG VON PH-INDIKATOREN

Title (fr)
ANALYSE ENZYMATIQUE SELECTIVE UTILISANT UN INDICATEUR DE PH

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Application
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Abstract (en)
[origin: WO9967420A1] Provided herein is a method for the quantitative screening of hydrolase for desired substrate activity using pH indicators which are sensitive to the release of protons from a chemical reaction in a reaction mixture. The method comprises selecting buffer and indicator conditions such that both have the same affinity for protons such that the relative amount of buffer protonated is proportional to the amount of indicator protonated as the pH of the reaction mixture shifts. A reaction mixture is then prepared comprising a buffer, indicator, hydrolase to be tested, and desired substrate to be tested, allowing the hydrolase to react with the substrate. The reaction is monitored by detection of change in color of the reaction mixture, determined by the affect of the reaction on the indicator.

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