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(54) Title: SELECTOR BASED RECOGNITION AND QUANTIFICATION SYSTEM AND METHOD FOR MULTIPLE ANALYTES IN A SINGLE ANALYSIS

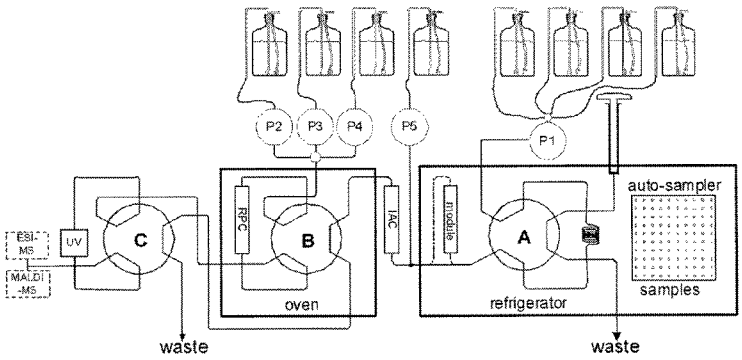


FIG. 13

(57) Abstract: A multi-dimensional method is provided for simultaneously analyzing multiple analytes within a sample solution, the method including: adding affinity selectors to a sample solution containing analytes to be measured, the affinity selectors having an affinity for one or more of the analytes within the sample solution; allowing immune complexes to form between the affinity selectors and the analytes; partially or totally resolving the formed immune complexes from non-analyte substances within the sample solution in a first dimension of separation using a selective adsorption technique; dissociating the resolved immune complexes; separating the analytes and the affinity selectors of the dissociated immune complexes from one another in a second dimension of separation using a selective adsorption technique; and resolving the analytes in accordance with their mass-to-charge ratios.

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