

DRY MULTILAYER ANALYTICAL ELEMENTS FOR ASSAYING
TRANSAMINASES

Abstract

A dry multilayer analytical element for assaying transaminases having, in the following order, a spreading layer, a reagent layer and a support and the element comprises:

- a) a transaminase substrate;
- b) reagents that generate pyruvate in the presence of a transaminase and the transaminase substrate;
- c) pyruvate oxidase and cofactors for pyruvate oxidase;
- d) reagents that generate a color in proportion to a concentration of hydrogen peroxide; characterized in that:
- e) the spreading layer contains the transaminase substrate and a material selected from the group consisting of polymer beads, barium sulfate, titanium dioxide and mixtures thereof;
- f) the reagent layer contains the pyruvate oxidase; and
- g) at least one layer separate the spreading layer from the reagent layer.