

Copy of a printed diagram referenced as "Two-dimensional electrophoresis of serum (Smithies)"

Contributors

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combination of the two processes at right-angles would separate proteins more completely than either process alone. Smithies and Poulik (1956) and Poulik and Smithies (1958) set up such a combination of the two electrophoretic systems as a two-dimensional electrophoresis method.

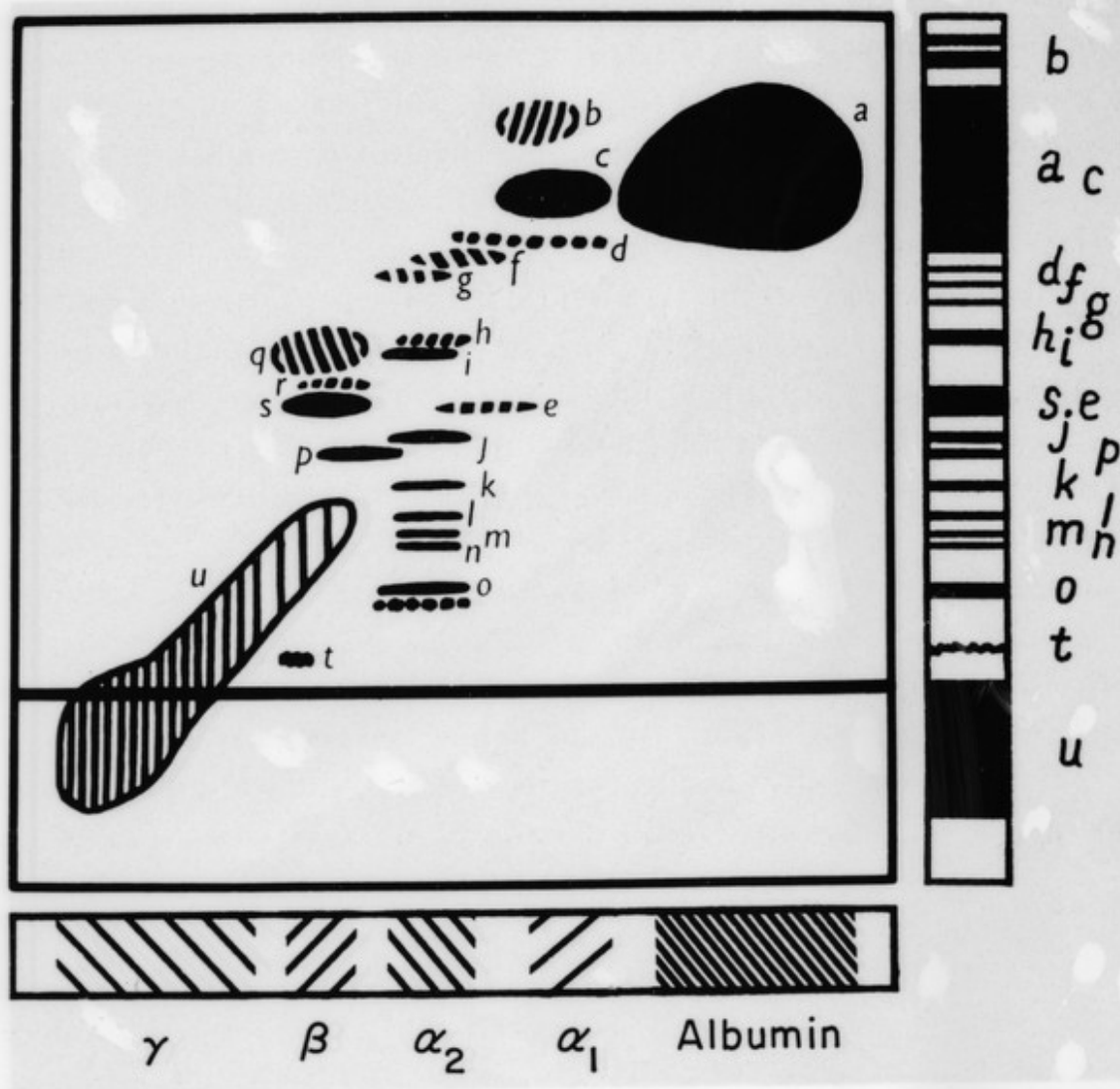


FIG. 5. A diagrammatic representation of the results of a two-dimensional starch-gel electrophoresis experiment with serum of haptoglobin type 2-1 and transferrin type C. The corresponding filter-paper electrophoresis separation is shown below the two-dimensional diagram; the corresponding one-dimensional starch-gel separation is shown to the right. The zones which have been specifically identified (see Section III) are: *a*, albumin; *b*, acidic α_1 -glycoprotein "orosomucoid"; *h*, *j*, *k*, *l*, *m*, *n*, haptoglobins; *o*, heat-labile glycoprotein " $S\alpha_2$ -globulin"; *s*, transferrin C; *t*, high