

[54] ANALYTICAL ENZYMATIC DETERMINATION

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[56] References Cited

UNITED STATES PATENTS

3,526,480	9/1970	Findl et al.	195/103.5 R
3,703,591	11/1972	Bucolo et al.	195/103.5 R
3,862,009	1/1975	Wahlefeld et al.	195/103.5 R

OTHER PUBLICATIONS

R. Bonnichsen, "Ethanol" H. U. Bergmeyer, Methods of Enzymatic Analysis, Academic Press, N.Y. and London, pp. 285-287, (1965).

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[57] ABSTRACT

An analytical process for enzymatic determination of a substrate in biological fluids. The fluid sample is reacted first in the absence of the specific kinase but in the presence of an NADH — regenerating enzymatic system with the reagents needed for the reaction sequence; then the enzymes are separated from the reaction solution, and thereafter the necessary enzymes are added to the filtrate and NADH consumption is measured.

The method is very accurate, economical in requiring less enzymes and only one measurement is necessary.

13 Claims, No Drawings