

Microbiological assay

Microbiological assay Method of measuring compounds such as vitamins and amino acids, using micro-organisms.

The principle is that the organism is inoculated into a medium containing all the growth factors needed except the one under examination; the rate of growth is then proportional to the amount of this nutrient added in the test substance.

Types

1. Agar plate diffusion assay (Method A) - refer to DISK DIFFUSION METHOD
2. Rapid reliable –reproducible microbial assay.

Rapid-Reliable-Reproducible Microbial Assay Methods

It is worthwhile to mention here that the usual 'conventional agar-plate assays' not only require stipulated incubation for several hours but also are rather quite slow.

Furthermore, reasonably judicious constant, rigorous, and honest attempts do prevail for the development of 'rapid- reliable reproducible microbial assay methods' based on the exploitation of techniques that essentially measure definite cognizable variations in the pattern of growth-rate invariably after a short incubation.

Nevertheless, these so called 'rapid methods' generally suffer from the similar critical problems usually encountered in the 'slow methods' namely:

Inadequate specificity, and

Lack of precision.

In actual practice there are two well-known techniques that provide rapid-reliable-reproducible microbial assay methods, namely:

- (a) Urease Activity,
- (b) Luciferase Assay.

Urease Activity

Urease refers to an enzyme that specifically catalyzes the hydrolysis of urea to ammonia (NH_3) and carbon dioxide (CO_2); it is a nickel protein of microbes and plants which is critically employed in carrying out the clinical assays of plasma-urea concentration.

Importantly, the microorganism *Proteius mirabilis* grows significantly in a urea-containing culture medium, whereupon it particularly causes the hydrolysis of urea to ammonia, and thereby helpsto raise the pH of the medium.

Theory And Application Of Microbiological Assay

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