

论文

大腸菌变种用于維生素B<sub>12</sub>微生物测定法的研究

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摘要:

关键词:

MICROBIOLOGICAL ASSAY OF VITAMIN B<sub>12</sub> USING A MUTANT STRAIN OF *E. COLI*

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Abstract:

A mutant strain of *E. coli* (44110-1) was used in the cup-plate method for ultra-micro analysis of vitamin B<sub>12</sub>. This method has been proved to be sensitive while the concentration of B<sub>12</sub> is within the range of 0.05—0.5μ/ml. B<sub>12</sub> contents in several samples of commercial liquid extract of liver were thus assayed and found to be approximately the same to that labelled. The cup-plate method of employing *E. coli* as an assay organism is superior to that using Lactobacilli, for culture media and instruments used are easily obtained and the whole assay is not difficult to control.

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