CREATIVE BIOMART®
Assay Kit

Soil Dehydrogenase (S-DHA) Activity Assay Kit

Product Information

Product Overview

Significance of Measurement: Soil dehydrogenase activity reflects the abundance of metabolically active microorganisms and their capacity for organic matter degradation, serving as an indicator of soil microbial activity.
Principle of Measurement: 2,3,5-Triphenyl tetrazolium chloride (TTC) acts as a hydrogen acceptor and is reduced to triphenyl formazan (TF) during microbial respiration. TF is red in color and shows a maximum absorbance at 485 nm. sDHA activity is determined spectrophotometrically at 485 nm.

Size

100t/48s

Storage

Store at 2–8 °C. Shelf life: 6 months.

Detection method Spectrophotometer/Microplate Reader

Technical Notes

For measurements using a 96-well plate, a 96-well UV plate must be used.

Materials Required but Not Supplied

Sieves, analytical balance, incubator or water bath, refrigerated centrifuge, funnel, filter paper, visible spectrophotometer or microplate reader, quartz cuvettes or 96-well plates, ice, distilled water, and acetone (user supplied).

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