CREATIVE BIOMART®
Assay Kit

Phosphate Assay Kit

Product Information

Cat.No. Kit-0319

Product Overview

The EasyRad phosphate assay Biochem Kit is an extremely quick and economical way to measure nucleoside triphosphate hydrolysis. There is minimal interference from other common ions and reagents used in molecular biology and biochemistry. This kit is designed to guide you through the process of measuring end-point and kinetic assays. There is special consideration for low activity ATPase and GTPase assays which can be performed easily with this kit.The EasyRad phosphate assay is a simple two step assay based on the separation of 32 or 33 phosphate from 32 or 33γ-phosphate nucleoside triphosphate (NTP). This is the highest sensitivity phosphate assay available and it is capable of measuring Kcat as low as 0.00001. The assay is based on a phosphate pre-loaded activated carbon which differentially binds NTPs rather than phosphate. The unparalleled sensitivity makes this assay a first choice for determining low activity ATPases and GTPases. There are two formats that differ in their quantity of throughput: The bench scale format is for up to 24 reactions, which can be processed using a microfuge for sedimentation separation, and the high throughput version, which requires vacuum filtration for separation.

Size

1000 assays

Applications

1. To measure low activity ATPases or GTPases.2. To measure phosphate release from other phosphatase catalyzed reactions.

Kit Components

1) 1 x 100ml, Reaction Buffer (sealed). Store at 4°C. 2) 1 x 250ml, Separator Solution (sealed). Store at 24°C. Shake before use. 3) 1 x 1ml, ATP stock solution (100mM) Store at -70°C. 4) 1 x 100ul, GTP stock solution (100mM) Store at -70°C. 5) 1 x manual, EasyRad Phosphate Assay Manual.

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