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AR10718PU-S

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Polyphospate Kinase - Purified

Catalog No.: AR10718PU-S

Quantity: 50 IU

Background: PPK catalyzes the reversible transfer of phosphate between polyphosphate and ATP. The

phosphorylation of ADP to ATP by polyphosphate kinase is by a processive mechanism; the

phosphorylation occurs without release of the polymer from the enzyme prior to

termination of the reaction.

Source: Propionibacterium shermanii

Format: State: Sterile filtered white lyophilized (freeze-dried) powder.

Buffer System: PPK solution containing 11.54 U/ml of PPK activity, 10.3 mg/ml total protein,

100mM Potassium Phosphate pH 6.8 and 25mM Sodium Polyphosphate.

Reconstitution: Restore in 1-10 ml deionized water

Description: Polyphosphate Kinase purified circa 10 fold.

Free of all Polyphosphate Glucokinase activity. Native Molecular Weight = 83 kD (monomer). Biological Activity: The reaction requires Mg²⁺.

The amount of Polyphosphate kinase required to convert 1µmole ADP to ATP per minute at

pH 7.5, using Polyphosphate as phosphate donor.

Specific Activity: 1.12 U/mg

Storage: Lyophilized PPK although stable at RT for 3 weeks, should be stored desiccated below

-18°C. Upon reconstitution PPK should be stored at 2-8°C between 2-7 days and for future

use below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please avoid freeze-thaw cycles. Shelf life: One year from despatch.

