

NADP Regenerating Kit

Cat. No. Kit-2090 Lot. No. (See product label)

SPECIFICATION

Product Overview	NADP Regenerating Kit is designed as a flexible prepackaged NADP regenerating system to accommodate various experimental designs. It provides two ready-to-use solutions to regenerate NADP with a concentration of ~1 mM. This kit can be used for all NADP-requiring systems (such as: 12-Ketochenodeoxycholic Acid synthesis, Ferredoxin Reductase System). 300-500 enzyme assays can be performed using this kit. The total number of assays that can be performed depends on one's experimental design.
Size	1 kit
Description	NADP is the electron acceptor for biosynthetic reactions and dehydrogenation reactions. NADP is used for anabolic pathways, such as lipid synthesis, cholesterol synthesis and fatty acid chain elongation. It is also a necessary cofactor in many xenobiotic metabolism reactions. In chloroplasts, NADP is reduced to NADPH by ferredoxin-NADP reductase in the last step of the electron chain in photosynthesis reactions. Many oxidoreductases and all ligases use NADP/NADPH as coenzyme. NADP can also be used in the determination of amylase, creatine kinase, glucose-6-phosphate dehydrogenase, isocitrate dehydrogenase.
Storage	Keep in -20°C and protect from light
Kit Components	Component A: NADP Regenerating Buffer I: 10 mL Component B: NADP Regenerating Buffer II: 10 mL Component C: NADP Regenerating Enzyme Mix: 1 vial Component D: NADPH: 2 vials

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