

## **DNA ligase (NAD+)**

Cat. No. EXWM-5821

Lot. No. (See product label)

## Introduction

**Description** Catalyses the formation of a phosphodiester at the site of a single-strand break in

duplex DNA. RNA can also act as substrate, to some extent. cf. EC 6.5.1.1, DNA ligase (ATP), EC 6.5.1.6, DNA ligase (ATP or NAD+), and EC 6.5.1.7, DNA ligase

(ATP, ADP or GTP).

**Synonyms** polydeoxyribonucleotide synthase (NAD+); polynucleotide ligase (NAD+); DNA

repair enzyme (ambiguous); DNA joinase (ambiguous); polynucleotide synthetase

(nicotinamide adenine dinucleotide); deoxyribonucleic-joining enzyme

(ambiguous); deoxyribonucleic ligase (ambiguous); deoxyribonucleic repair enzyme (ambiguous); deoxyribonucleic joinase (ambiguous); DNA ligase (ambiguous); deoxyribonucleate ligase (ambiguous); polynucleotide ligase (ambiguous);

deoxyribonucleic acid ligase (ambiguous); polynucleotide synthetase (ambiguous); deoxyribonucleic acid joinase (ambiguous); DNA-joining enzyme (ambiguous);

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polynucleotide ligase (nicotinamide adenine dinucleotide)

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 6.5.1.2

*CAS No.* 37259-52-2

**Reaction** NAD+ + (deoxyribonucleotide)n + (deoxyribonucleotide)m = AMP +  $\beta$ -nicotinamide

D-nucleotide + (deoxyribonucleotide)n+m

**Notes** This item requires custom production and lead time is between 5-9 weeks. We can

custom produce according to your specifications.

## Storage and Shipping Information

Store it at +4 °C for short term. For long term storage, store it at -20 °C∼-80 °C.