

ENZYMES

2-Chloro-4-Nitrophenyl- α -Maltotrioside (CNPG3)

CAT# CHNM-70-3821
CAS# 118291-90-0

SPECIFICATIONS

Appearance	Off-white to pale yellow powder
Purity	>95% by HPLC
Moisture (Karl Fisher)	<5%
Other CNP Maltodextrins (CNPG1, CNPG2, compound Y and GNPG4)	<5% total
Free CNP	<0.04%

ASSAY PRINCIPLE

Amylase acts on the CNPG3 in the following way:



α -Amylase hydrolyzes CNPG3 to release chloro-nitrophenol and shorter chain chloro-nitrophenyl malto-oligosaccharides. The rate of formation of chloro-nitrophenol can be detected spectrophotometrically at 405nm to give a direct measurement of α -amylase activity.

APPLICATION

CNPG3 is a patented substrate for the determination of pancreatic α -amylase. The CNPG3 does not require the presence of auxiliary enzymes, as color is directly released as a result of α -amylase cleavage at the aglycone. CNPG3 is available from Sekisui Enzymes as the substrate alone, or as the 510(k) cleared automated Direct Amylase reagent with excellent liquid stability.

CHARACTERISTICS

Molecular formula	$\text{C}_{24}\text{H}_{35}\text{ClNO}_{18}$
Molecular weight	660.12 g/mol

THE AMERICAS

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