

DATA QUALITY SHEET



SynergyT DNA Polymerase

FOR RESEARCH USE ONLY

Cat. GC-048-0100, GC-048-0250, GC-048-0500, GC-048-1000, GC-048-5000

DESCRIPTION	Synergy mixture with addition of TthPlus DNA polymerase especially suited for low specificity PCR with degenerated primers.
CONCENTRATION	10 units/ μ l.
APPLICATION	Low specificity PCR for degenerated primers
UNIT DEFINITION	One unit is defined as the amount of enzyme that incorporates 10 nmoles of dNTPs into acid-insoluble form in 30 minutes at 72°C under the assay conditions (25 mM TAPS (tris-(hydroxymethyl)-methyl-amino-propanesulfonic acid, sodium salt) pH 9.3 (at 25°C), 50 mM KCl, 2 mM MgCl ₂ , 1 mM β -mercaptoethanol) and activated calf thymus DNA as substrate.
STORAGE BUFFER	10 mM K-phosphate buffer pH 7.0, 100 mM NaCl, 0.5 mM EDTA, 1 mM DTT, 0.01% Tween 20, 50% glycerol (v/v)
REACTION BUFFER	Reaction buffer (10x): 160 mM (NH ₄) ₂ SO ₄ , 670 mM Tris-HCl pH 9.1; 8% Glycerol, 2% DMSO, 35 mM MgCl ₂
STORAGE TEMPERATURE	Store SynergyT Polymerase below 0°C preferably at -20°C, in a constant temperature freezer.
SHELF LIFE	2 years from date of receipt under proper storage conditions.
QUALITY CONTROL	Activity, SDS-PAGE purity, absence of endonucleases/ nickases and exonucleases.