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## TAQDNAPolymerase

HighlyThermostableDNAPolymerase

CAT.NO.

enz-10002.2:500UTaqPolymerase+500µl10XPCRBufferwithoutMgCl 2  
enz-10002.3:1000UTaqPolymerase+1ml10XPCRBufferwithoutMgCl 2  
enz-10002.4:2000UTaqPolymerase+2ml10XPCRBufferwithoutMgCl 2  
enz-10002.5:5000UTaqPolymerase+5ml10XPCRBufferwithoutMgCl 2

### CONCENTRATION

5U/µl

### DESCRIPTION

TaqPolymeraseisahighlyprocessive,thermostableDNA polymeraseexhibitingveryhighactivityinprimer extension duringthermocycling.

### BUFFERS

StorageBuffer

TaqDNAPolymeraseisdissolvedin20mMTris -HClpH7.6, 100mMKCl,0.1mMEDTA,1mMDTT,0.5%TritonX100, and50%glycerol.Short -termstorageatroomtemperature, long-termstorageat -20C.

### 10XPCRreactionbuffer:

600mMTris -HClpH8.3,250mMKCl,15mMMgCl 2,1% TritonX100,100mMβ -mercaptoethanol.

### PROTOCOL

**Important:Spinvialbeforeuseinamicrocentrifuge!**

ReactionConditions	Volume	Final
Concentration		
10XPCRreactionbuffer	5µl	1X
2.5mMdNTPmixture	5µl	250µM
eachdNTP(dATP,dCTP,dGTP,dTTP)		
Primer1	variable	0.2 -2
µM(e.g.,1µlof100pmolprimer)		
Primer2	variable	0.2 -2
µM(e.g.,1µlof100pmolprimer)		
TaqDNAPolymerase	5µl	5U
TemplateDNA	variable	variable
Distilledwater	variable	
TOTALVOLUME	50µl	

**Note:** Theoptimalconditions(incubationtime,temperatures, templateDNA,primers,etc.)dependonthesystemandmust bedeterminedindividuallyforoptimalperformance.Eachlot

hasbeentestedforcontaminationandnoendonuclease activity,nickingactivity,exonucleaseactivityorpriming activityhasbeendetected.

### STORAGE

-20Cforlong -termstorage

**FORRESEARCHUSEONLY.NOTFORUSEIN THERAPEUTICORDIAGNOSTICPROCEDURES.**

