



## Promega

### MAY 2009 PROMEGA PRODUCT STOCK LIST

#### ROUTINE PCR PRODUCTS

GoTaq is a proprietary formulation of Taq DNA polymerase that gives robust amplification equal or superior to that of standard Taq DNA polymerase. GoTaq comes in a variety of formats designed to give you maximum flexibility, control and convenience.



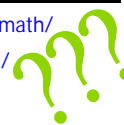
Description	Units	Cat #
GoTaq® Flexi DNA Polymerase (GoTaq DNA polymerase, green & colourless buffers plus separate MgCl <sub>2</sub> )	100u	M8301
	500u	M8305
	2500u (5 x 500u)	M8306
	5000u (10 x 500u)	M8307
GoTaq® DNA Polymerase (GoTaq DNA polymerase, green & colourless buffers containing MgCl <sub>2</sub> )	500u	M3175
	2500u	M3178
GoTaq® Green Master Mix (2x formulation with green buffer for direct to gel applications)	100 x 50ul rxns	M7112
PCR Master Mix	100 x 50ul rxns	M7502
GoTaq® HotStart DNA Polymerase	100u	M5001
GoTaq® HotStart DNA Polymerase	500u	M5005

Need help determining oligo Tm's in GoTaq reaction buffers? Go to <http://www.promega.com/biomath/>

Need help designing primers? Go to <http://eu.idtdna.com/Scitools/Applications/Primerquest/>

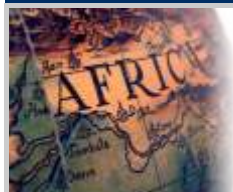
Need to order primers? Contact us at [oligos@whitesci.co.za](mailto:oligos@whitesci.co.za)

Want to try a sample? Go to [www.promega.com/gotaqchallenge](http://www.promega.com/gotaqchallenge)



#### NUCLEOTIDES

Description	Units	Cat #
dNTPs (Set of dATP, dCTP, dGTP, dTTP) Sufficient for 4000 x 50ul reactions	4 x 40 µmol each	U1240
dNTPs (Set of dATP, dCTP, dGTP, dTTP) Sufficient for 1000 x 50ul reactions	4 x 10 µmol each	U1330
dNTPs (Set of dATP, dCTP, dGTP, dTTP) Sufficient for 2500 x 50ul reactions	4 x 25 µmol each	U1420
PCR Nucleotide Mix (10mM dNTP mix) Use 1ul per 50ul reaction	200µl	C1141



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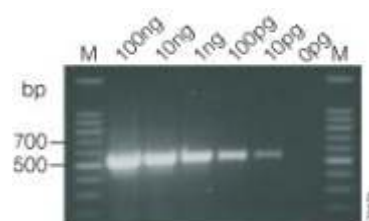
[www.whitesci.co.za](http://www.whitesci.co.za)

## HIGH FIDELITY PCR

Description	Units	Cat #
Pfu DNA Polymerase	100u	M7741

## RT-PCR

- ImProm-II RT is recommended for the transcription of long and rare mRNA's
- The ImProm-II RT System includes Recombinant RNasin Ribonuclease Inhibitor, nuclease free water, MgCl<sub>2</sub>, dNTP's, oligo dT, random hexamers, ImProm-II RT, reaction buffer and positive controls
- The Access RT-PCR System is designed for the reverse transcription (RT) and polymerase chain reaction (PCR) amplification of a specific target RNA from either total RNA or mRNA

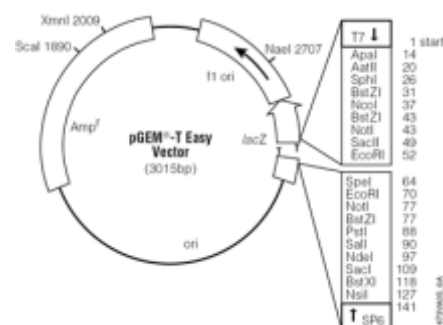


Amplification of 540bp  $\alpha$ -actin fragment by two-step RT-PCR using ImProm-II™ Reverse Transcription System and GoTaq Green Master Mix.

Description	Units	Cat #
ImProm-II™ Reverse Transcriptase	100 rxns	A3802
ImProm-II™ Reverse Transcription System	100 rxns	A3800
Access RT-PCR System	100 rxns	A1250

## TA-CLONING

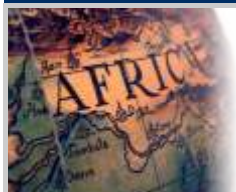
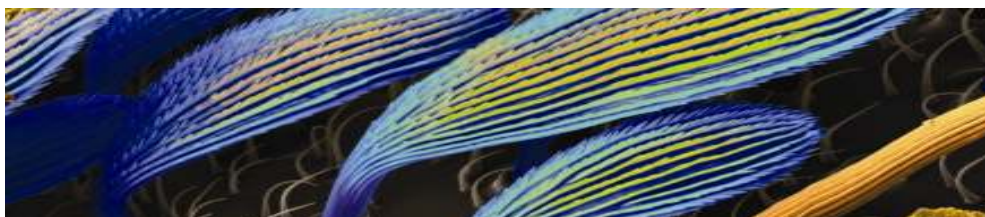
The pGEM®-T Easy Vector Systems are convenient systems for the cloning of PCR products. The 2X Rapid Ligation Buffer allows reactions to be completed in 1 hour at room temperature. Insertional inactivation of the  $\beta$ -peptide allows recombinant clones to be directly identified by blue/white color screening.



Description	Units	Cat #
pGEM® T Easy Vector System I	20 reactions	A1360
pGEM® T Easy Vector System II (non-stock, includes A1360 plus JM109 competent cells)	20 reactions	A1380

## MOLECULAR WEIGHT MARKER AND DNA

Description	Units	Cat #
100 bp DNA Ladder	250 $\mu$ l (50 lanes)	G2101
DNA Ladder, 1kb	500 $\mu$ l (100 lanes)	G5711
Lambda DNA/EcoR I+Hind III markers	100 $\mu$ g (200 lanes)	G1731
Lambda DNA	250 $\mu$ g	D1501
Oligo(dT)15 Primer	20 $\mu$ g	C1101
Blue/Orange 6 x loading dye	3ml	G1881
Broad Range Molecular Weight Markers	100 lanes	V8491



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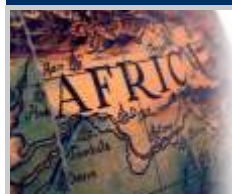
## ENZYMES FOR MOLECULAR BIOLOGY

Description	Units	Cat #
M-MLV Reverse Transcriptase	10,000u	M1701
M-MLV Reverse Transcriptase	50,000u	M1705
AMV Reverse Transcriptase	300u	M5101
AMV Reverse Transcriptase	1,000u	M5108
M-MLV Reverse Transcriptase, RNase H (-)	10,000u	M5301
T4 DNA Ligase	100u	M1801
T4 DNA Ligase	500u	M1804
Klenow (DNA Polymerase I)	150u	M2201
T4 Polynucleotide Kinase	100u	M4101
RQ1 RNase Free DNase	1,000u	M6101
Shrimp Alkaline Phosphatase	500u	M8201
TSAP Thermosensitive Alkaline Phosphatase	100u (1u TSAP = 10u SAP)	M9910

## RESTRICTION ENZYMES

Enzyme	Cat#	Unit
Apa I	R6361	5000u
BamH 1	R6021	2,500u
Bgl 11	R6081	500u
Cla 1	R6551	500u
Dde I	R6295	1,000u
Dpn 1	R6231	200u
EcoR 1	R6011	5,000u
EcoR V	R6351	2000u
Hae 111	R6171	2,500u
Hinc II	R6031	200u
Hind 111	R6041	5,000u
Hinf 1	R6201	1,000u
Hsp9211	R7161	1,000u
Kpn I	R6341	2,500u
Nco I	R6513	200u
Nde I	R6801	500u
Nde II	R7291	200u
Not I	R6431	200u
Pst I	R6111	3,000u
Rsa I	R6371	1,000u
Sal I	R6051	2,000u
Sma I	R6121	1,000u
Taq I	R6151	1,000u
Tru9 I	R7011	200u
Xba I	R6181	2,000u
Xho I	R6161	3,000u
BSA	R3961	10mg

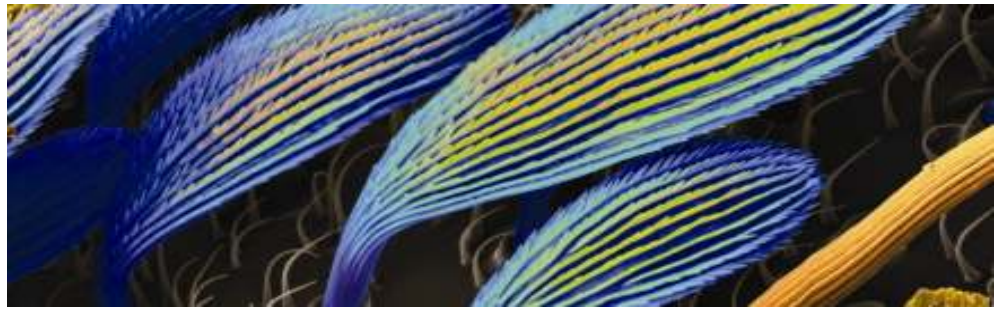
Useful links and info  
 Restriction Enzymes Resource  
 ([http://www.promega.com/guides/re\\_guide/](http://www.promega.com/guides/re_guide/))  
 Promega Rapid DNA Digest Protocols  
 (<http://www.promega.com/enotes/applications/ap0078.htm>)



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## RNA PURIFICATION

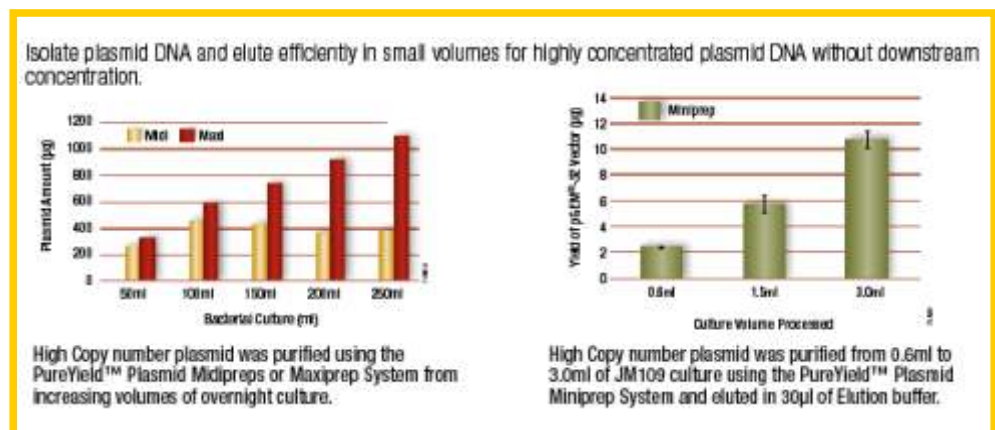
Description	Units	Cat #
SV Total RNA Isolation System	50 preps	Z3100
RNasin® Ribonuclease Inhibitor	2,500u	N2111
Recombinant RNasin® Ribonuclease Inhibitor	2,500u	N2511

## DNA PURIFICATION

The PureYield™ Plasmid Systems provide high-speed purification of transfection-grade plasmid DNA.

- Recover up to 1mg of plasmid DNA in less than 60 minutes (maxiprep) – requires a vacuum manifold.
- Recover up to 200µg of plasmid DNA in only 30 minutes (midiprep).
- Purify plasmid DNA in less than 10min using the PureYield Minipreps

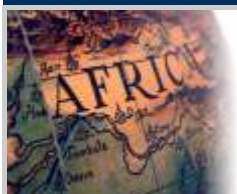
Samples available at [www.promega.com/pureyield](http://www.promega.com/pureyield)



Description	Units	Cat #
PureYield™ Plasmid Miniprep System	50 preps	A1221
PureYield™ Plasmid Miniprep System	250 preps	A1222
PureYield™ Plasmid Midiprep System	25 preps	A2492
PureYield™ Plasmid Maxiprep System	10 preps	A2392
Wizard® SV Gel and PCR Clean-up System	50 preps	A9281
Wizard® SV Gel and PCR Clean-up System	250 preps	A9282
Wizard® Genomic DNA Purification Kit	100 isolations (300ul)	A1120
Wizard® Plus SV Mini preps	50 preps	A1330
Wizard® Plus SV Mini preps DNA Purification System	250 preps	A1460
Wizard® DNA Clean-Up System	100 preps	A7280
RNase A Solution	1.0ml	A7973

## SEQUENCING

Description	Units	Cat #
SILVER SEQUENCE™ DNA Staining Reagents	10 gels	Q4132



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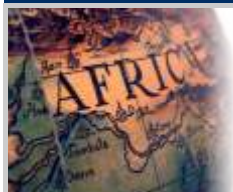
CHEMICALS

Description	Units	Cat #
Acrylamide, Electrophoresis Grade	500g	V3115
Acrylamide/NN' Methylenebisacrylamide (19:1)	1,000ml	H5161
Acrylamide/NN' Methylenebisacrylamide (37:1)	1,000ml	H5171
Agarose, LE, Analytical Grade	100g	V3121
Ammonium Persulphate	25g	V3131
Bisacrylamide (N,N'-Methylenebisacrylamide)	25g	V3141
Blue/Orange 6 x loading dye	3ml	G1881
Boric Acid (orthoboric acid)	500g	H5001
Boric Acid (orthoboric acid) Mol. Wt. 61.83	1kg	H5003
DTT (DL-Dithiothreitol)	5g	V3151
EDTA, Disodium Salt, Mol. Wt. 372.74	100g	H5031
Ethidium Bromide Solution	10ml	H5041
Guanidine Thiocyanate	100g	V2791
IPTG, Dioxane-free, 99% pure	5g	V3951
IPTG, Dioxane-free, 99% pure	1g	V3955
Nuclease Free Water	50ml	P1193
Proteinase K	100mg	V3021
TBE, 10X (pH 8.3 Sterile)	1000ml	V4251
Tris Base	500g	H5131
Urea	1Kg	V3171
X-Gal	100mg	V3941

  
**Promega**

For more information on Promega products  
please visit  
[www.promega.com](http://www.promega.com)  
 or contact us at  
[whitesci@whitesci.co.za](mailto:whitesci@whitesci.co.za)

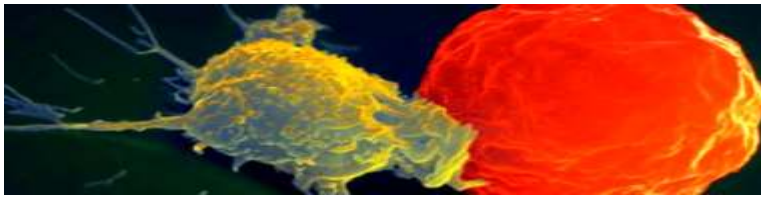
Please turn over to find out more information  
on our Lonza Agarose and IDT Primers



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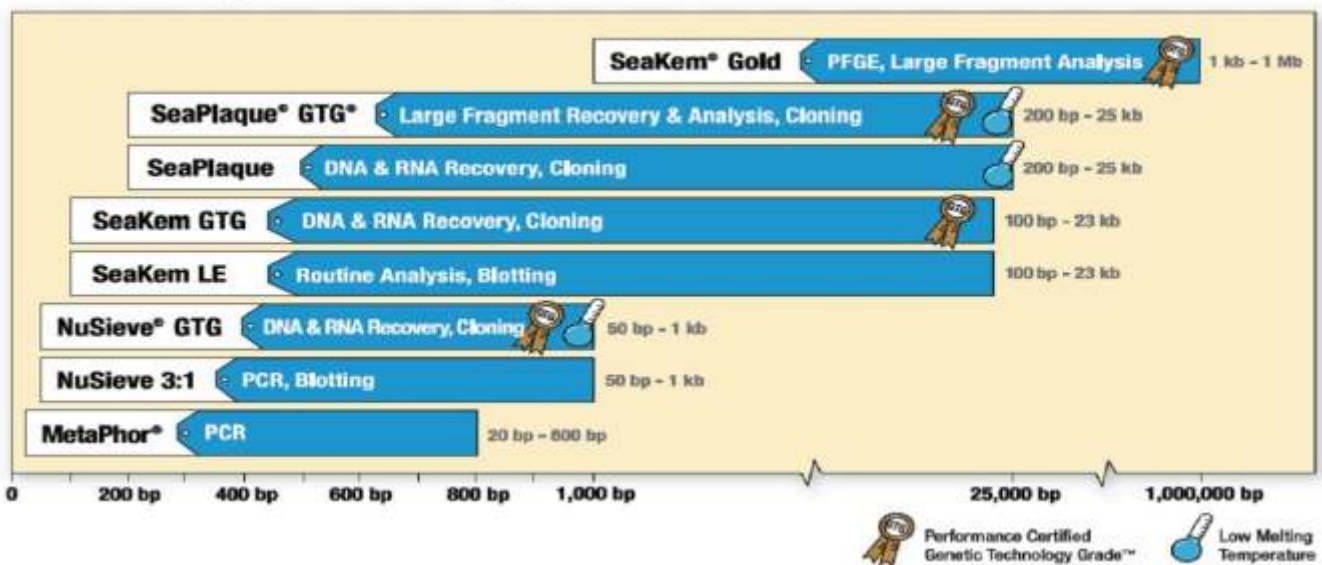
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# LONZA AGAROSE

Setting the standard in quality and purity for routine gel electrophoresis

Choose the Agarose that is Right for You.



## SeaKem® LE Agarose

Wide resolution range: 100 bp to 23 kb  
High Gel strength

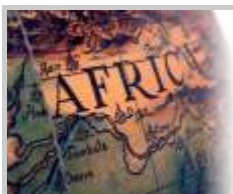
Consistent lot to lot performance

Ideal molecular biology grade agarose for routine analysis and blotting

*Available from stock*

GUARANTEED  
DNase/RNase free

Product Code	Unit
50002	100g
50004	500g
50005	1kg



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Take a fresh approach to custom DNA synthesis

**IDT Standard Custom Oligonucleotide Synthesis**

Synthesis scale	Length	Minimum Guaranteed Yield
25nmole	15-60 bases	3ODs
100nmole	10-90 bases	6 ODs
250nmole	5-100 bases	15 ODs
<i>Ultramers™</i>	60-200 bases	4 nmoles

Oligos are supplied desalted and deprotected . Oligos are quantitated twice by UV spectrophotometry and quality checked by mass spectrometry.

**Primer-Probe Mixes  
for qPCR assays**

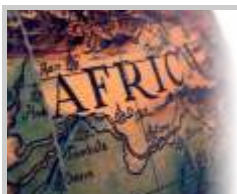
Probe combined with 2 PCR primers for use in the 5' Nuclease Assay for Real-Time PCR.

***miniGenes***

Gene Synthesis  
40-500bp

Please contact [oligo@whitesci.co.za](mailto:oligo@whitesci.co.za)  
for more information and quotations

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