

# Product Specification Summary

## PCR Amplification & Analysis



Catalog Number	40-3031-10
Product Name	DMSO (Dimethyl sulfoxide); 1 mL
Size	1 mL
Description	Dimethyl Sulfoxide
Component/Note	PCR Additive

PCR additives Betaine, DMSO and formamide reduces the  $T_m$  and the complex secondary structure thus the duplex stability. Tetramethyl ammonium chloride (TMAC) actually increases the specificity of hybridization and increases the  $T_m$ . The use of TMAC is recommended in PCR conditions using degenerate primers.

These PCR additives and enhancing agents have been used to increase the yield, specificity and consistency of PCR reactions. These additives may have beneficial effects on some amplification and it is impossible to predict which agents will be useful in a particular context and therefore they must be empirically tested for each combination of template and primers. DMSO (dimethyl sulfoxide) reduce secondary structure and is particularly useful for GC rich templates. DMSO at 2-10% may be necessary for amplification of some templates, however 10% DMSO can reduce Taq polymerase activity by up to 50% so it should not be used routinely.

Scan the QR Code or visit the following links

Product Information

<http://www.genelink.com/geneprodsite/product.asp?p=1066>



Product Manual

[http://www.genelink.com/Literature/ps/M40-3021-PCR\\_Additives\\_Ver5.2.pdf](http://www.genelink.com/Literature/ps/M40-3021-PCR_Additives_Ver5.2.pdf)



Product MSDS

[http://www.genelink.com/Literature/ps/GL MSDS LONG-hazardous\\_DMSO\\_20230310.pdf](http://www.genelink.com/Literature/ps/GL MSDS LONG-hazardous_DMSO_20230310.pdf)



## Related Products

Product	Catalog No	Size
Omni-Marker™ Universal unlabeled; 100 uL	40-3005-01	100 uL
Omni-Marker™ Universal unlabeled; 1 mL	40-3005-10	1 mL
Omni-Marker™ Low unlabeled; 500 uL	40-3006-05	500 uL
Loading buffer 5X BPB/XC non-denaturing; 1 mL	40-3002-10	1 mL
Loading Buffer 5X Orange G/XC non-denaturing; 1 mL	40-3004-10	1 mL
Loading Buffer 2X BPB/XC Denaturing for Sequencing; 1 mL	40-5027-10	1 mL
Omni-Clean™ Gel DNA Beads Purification System; 100 purification	40-4110-10	100 Purifications
Omni-Clean™ Gel DNA Beads Purification System; 500 purifications	40-4110-50	500 Purifications
Omni-Clean™ Gel DNA Spin Column Purification System; 100 purifications	40-4120-10	100 Purifications
Omni-Clean™ Gel DNA Spin Purification; 500 purifications	40-4120-50	500 Purifications
Omni-Clean™ DNA Concentration System; 100 purifications	40-4130-10	100 Purifications
Omni-Clean™ DNA Concentration System; 500 purifications	40-4130-50	500 Purifications
Omni-Clean™ DNA Spin Column Concentration System; 100 purification	40-4140-10	100 Purifications
Omni-Clean™ DNA Spin Column Concentration System; 500 purification	40-4140-50	500 Purifications
Taq DNA Polymerase 400 units 5 u/uL; 80 uL; 400 units	40-5200-40	400 each