



Product Insert ClearBand Solution

Product:	ClearBand Solution
Catalogue No:	2 x 1.2ml CB-4900-5
Description:	<p>ClearBand Solution is a special 2x additive for use in reactions involving any thermostable DNA Polymerase. ClearBand Solution provides an optimised composition of reagents leading to a dramatic improvement of reaction specificity. ClearBand Solution is recommended for use with all Denville thermostable DNA Polymerases.</p> <p>ClearBand Solution acts as “melting” agent for dirty, and mainly difficult templates with high GC-, or AT- content, and repetitive sequences, or templates with difficult melting profile, by making DNA more accessible for Polymerase and oligonucleotides.</p> <p>ClearBand Solution does not contain Mg, dNTPs, or buffer components. Magnesium concentration should be optimised in some cases.</p> <p><i>Note: ClearBand Solution is a revised version of Denville’s 5x Additive.</i></p>
Features:	<ul style="list-style-type: none">• Dramatically increases specificity• Compatible with any thermostable DNA Polymerases• Ideal for “difficult” templates• Reduces smearing and background
Applications:	<ul style="list-style-type: none">• Universal additive to all types of DNA Polymerase reactions• DNA Polymerase reactions where specificity is critical
Storage:	+4°C for short-term storage (days), and -20°C for long-term storage (weeks, months). If solidified dissolve with heating at 50-70°C, vortex.
Shipping Conditions:	Suitable for shipping at room temperature.
Product Life:	1 year from date of purchase
Directions to Use:	Compose the reaction mix, containing buffer, dNTPs, Mg ²⁺ , template DNA, primers, DNA polymerase. Add 2x ClearBand Solution at the volume of half of the final volume of reaction (e.g. 25ul per 50ul final volume, etc). Add ddH ₂ O up to final volume and mix with pipetting.
Notes:	2x ClearBand Solution should not be used with Denville’s 5x Additive in a single reaction.

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This certificate is a declaration of analysis at the time of manufacture