



# UltraAmp™

Capture Sequence Cap03 / Oyster®-550 Labeled (900)  
3DNA® Dendrimer Signal Amplification Reagent

## PRODUCT INFORMATION

|   |   |
|---|---|
| Catalog Number:                           | AA9050  |
| Quantity of 3DNA dendrimer per vial:      | 1 microgram                                       |
| Targeting moiety bound to 3DNA dendrimer: | Cap03 Oligonucleotide                             |
| Capture sequence on dendrimer:            | 5'- TCC ACC TTA GAG TAC AAA CGG AAC ACG AGA A -3' |
| Label moiety bound to 3DNA dendrimer:     | Oyster-550 (~900 per dendrimer)                   |
| Dendrimer concentration:                  | 10 nanograms of DNA per microliter                |
| Storage conditions:                       | 2-8° Celsius                                      |
| Shelf life:                               | Six (6) months from the date of manufacture       |
| 3DNA Dendrimer Molecular weight:          | 1.6 x 10 <sup>7</sup> Daltons                     |

## DESCRIPTION

A DNA dendrimer reagent containing Cap03 capture sequence oligonucleotide (15-30 per dendrimer molecule) and labeled with ~ 900 Oyster-550 moieties.

## STORAGE BUFFER

This UltraAmp reagent is prepared and stored in a buffered solution containing highly pure ethylene glycol, thimerosal (anti-microbial) and other proprietary stabilizer agents.

## USAGE

This reagent is effective for the detection of nucleic acid and protein targets containing the complementary nucleic acid sequence to the Cap03 capture sequence. Useful in a variety of assay formats, including DNA and protein microarrays, ELISA and bead based flow assay formats. A quantity of 10 – 50 nanograms of dendrimer reagent per reaction is recommended; this may vary dependent upon the assay type and conditions. We recommend titrating the UltraAmp reagent for each specific assay format to determine the most appropriate quantity required per reaction. UltraAmp reagents are compatible with most assay buffers. Volume excluders, such as dextran sulfate, may be used at concentrations of up to 3% to enhance the performance of these reagents.

## APPLICATION NOTES

Application notes detailing the specific use of this product in various assay formats are available at [www.genisphere.com/signal\\_amp\\_app\\_notes.html](http://www.genisphere.com/signal_amp_app_notes.html)

## QUALIFICATION

This reagent has been qualified in a standard DNA microarray assay by binding of the UltraAmp™ reagent to features containing control DNA probes. This assay demonstrates the ability of the UltraAmp reagent to bind appropriately to its target and provide quantifiable signal. The graph indicates the pixel intensity signals achieved by this reagent and other reagents containing varying quantities of fluorescent labels. This quality control test may not represent the performance of this reagent in this and other types of binding assays.

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Oyster is a trademark of Denovo Biolabels GmbH.

Protected by U.S. Patents 5,175,270; 5,484,904; 5,487,973, 6,046,038, 6,072,043, 6,110,687 and other patents pending in the U.S. and other countries.

Use of this product may require additional licenses depending on the application.  
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