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## Product Datasheet

### Biotin-11-dUTP BYT-ORB64042

|                            |                                                                                                                                                                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article Name               | Biotin-11-dUTP                                                                                                                                                                                                                                               |
| Biozol Catalog Number      | BYT-ORB64042                                                                                                                                                                                                                                                 |
| Supplier Catalog Number    | orb64042                                                                                                                                                                                                                                                     |
| Alternative Catalog Number | BYT-ORB64042-5                                                                                                                                                                                                                                               |
| Manufacturer               | Biorbyt                                                                                                                                                                                                                                                      |
| Category                   | Biochemikalien                                                                                                                                                                                                                                               |
| Product Description        | Biotin-11-dUTP is enzymatically incorporated into DNA/cDNA as substitute for its natural counterpart dTTP. The resulting Biotin-labeled DNA/cDNA probes are subsequently detected using streptavidin conjugated with horseradish peroxidase (HRP), alkali... |
| Concentration              | 1.0 mM-1.1 mM                                                                                                                                                                                                                                                |
| Molecular Weight           | Theoretical MW: 862.67 g/mol (free acid), Detected MW: 862.18 g/mol (free acid)                                                                                                                                                                              |
| Purity                     | 95% (HPLC)                                                                                                                                                                                                                                                   |
| Form                       | filtered solution (30 kDa) in 10 mM Tris-HCl, Color: colorless to slightly yellow, pH: 7.5 0.5                                                                                                                                                               |
| Formula                    | C <sub>28</sub> H <sub>45</sub> N <sub>6</sub> O <sub>17</sub> P <sub>3</sub> S                                                                                                                                                                              |

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| Application Notes | <p>Application Notes: Incorporation into DNA/cDNA by: PCR with Taqpolymerase &amp; in-house data, Nick Translation with DNase I/DNA Polymerase I &amp; in-house data, Primer Extension with Klenow 3-5 exo-, 3-End Labeling with Terminal deoxynucleotidyl Transferase (TdT), Reverse Transcription with MMLV Reverse Transcriptase.</p> <p>Spectroscopic Propertie: <math>\lambda_{\text{max}}</math> 240/289 nm, <math>\epsilon</math> 10.7/7.1 L mmol<sup>-1</sup> cm<sup>-1</sup>, (Tris-HCl pH 7.5)</p> |
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