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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

Application Notes

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