

Product Datasheet

HighFidelity GREEN PCR Labeling Testkit (orb692240)

Catalog Number	orb692240
Category	Tools
Description	<p>HighFidelity GREEN PCR Labeling Testkit is designed to produce randomly Fluorescein-, ATTO488-and AF488-modified DNA probes by PCR to find the optimal label for the green emission wavelength range. Such probes are ideally suited for Fluorescence in situ hybridization (FISH) and Northern Blot experiments. PCR-based labeling is superior to random-primed labeling with Klenow fragment if template amounts are limited or amplification of a specific DNA fragments is required. Amplification of probes up to 4 kbp is feasible. All labeled-dUTPs are efficiently incorporated into DNA as sub-stitute for its natural counterpart dTTP using an optimized reaction buffer and a High Fidelity Polymerase blend consisting of Taq polymerase and a proofreading enzyme. 50% labeled-dUTP substitution typically results in an optimal balance between reaction and labeling efficiency. Individual optimization of labeled-dUTP/dTTP ratio however, can easily be achieved with the single nucleotide format.</p>
Application notes	<p>Spectroscopic Propertie: Fluorescein: λ_{exc} 492 nm, λ_{em} 517 nm, ϵ 83.0 L mmol⁻¹ cm⁻¹ (Tris-HCl pH 7.5), ATTO488: λ_{exc} 500 nm, λ_{em} 520 nm, ϵ 90.0 L mmol⁻¹ cm⁻¹ (Tris-HCl pH 7.5), AF488: λ_{exc} 494 nm, λ_{em} 515 nm, ϵ 73.0 L mmol⁻¹ cm⁻¹ (Tris-HCl pH 7.5).</p>
Storage	store at -20 °C
Hazard Information	Non-Toxic
Note	For research use only
Expiration Date	12 months from date of receipt.

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