# HighFidelity RED PCR Labeling Testkit

HighFidelity RED PCR Labeling Testkit is designed to produce randomly Cy5-, AF647- and ATTO643-modified DNA probes by PCR to find the optimal label for the red 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 4kbp is feasible. All labeled-dUTP are efficiently incorporated into DNA as substitute 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.

## Ordering Information

Order Online »

| | |
|---|---|
| **JBS-APP-101-RED** | 1Kit |

## Manuals, SDS & CofA

View Online »

## Handling & Storage

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|---|---|
| **Long Term Storage** | -20°C |
| **Shipping** | Blue Ice |

## Regulatory Status

RUO - Research Use Only

## Product Details

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|---|---|
| **Application Notes** | Preparation of Cy5-, AF647- and ATTO643-labeled DNA probes by PCR |
| **Technical Info / Product Notes** | For the Original Manufacturer's data sheet please click here. |

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