HighFidelity Biotin16 PCR Labeling Kit

HighFidelity Biotin16 PCR Labeling Kit is designed to produce randomly Biotin16-modified DNA probes by PCR. Such probes are ideally suited for in situ hybridization and Northern Blot experiments. PCR-based labeling is superior to random-primed labeling by Klenow fragment if template amounts are limited or amplification of a specific DNA fragments is required. Biotin-16-dUTP is efficiently incorporated into DNA as substitute for its natural counterpart dTTP using an optimized reaction buffer and a High Fidelity Polymerase. 50 % Biotin-16-dUTP substitution typically results in an optimal balance between reaction and labeling efficiency. Individual optimization of Biotin-16-dUTP/dTTP ratio however, can easily be achieved with the single nucleotide format. The resulting Biotin16-modified DNA probe can subsequently be detected by HRP- or AP-modified Streptavidin. The kit contains sufficient reagents for 175 labeling reactions of 20 µl each (50 % Biotin16-dUTP substitution, 100 µM dATP/dGTP/dCTP, 50 µM dTTP, 50 µM Biotin16-dUTP).

Ordering Information

Order Online »

JBS-APP-101-BIO16	175Reactions

Manuals, SDS & CofA

View Online »

Handling & Storage

Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Application Notes	Preparation of Biotin16-labeled DNA probes by PCR
Technical Info / Product Notes	For the Original Manufacturer's data sheet please click here.

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