

THANKS for your Order!

Here are the custom- synthesized oligonucleotides you ordered.

As you can confirm from the enclosed documentation, these compounds were carefully analyzed during and after synthesis then packed and shipped to guarantee that upon arrival, they meet or exceed your expectations for performance.

To ensure that you do achieve the maximum performance and useful lifetime of these compounds, please take a moment to review these suggested handling and storage guidelines.

All of us at *metabion* thank you very much for your order!



TECHNICAL SUPPORT

If you require additional information or technical assistance, please feel free to email our Marketing and Sales Department at:

info@mymetabion.com

For immediate assistance, our knowledgeable staff is available for telephone consulting from 8: 30 AM to 6: 00 PM Monday through Friday.

Please contact us at:

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or use our online order form:

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or send a fax to:

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Guidelines for the Handling and Storage of Fluorescent Probes



Quality Management System



DQS-certified according to
DIN EN ISO 9001 : 2000
Reg. No. 69201-01

Fluorescent Probe Storage Guidelines

Overview

Dye - labelled probes are shipped lyophilised. If you don't immediately use your probes store them dark in the fridge (4° C) or at room temperature.

Do not freeze lyophilised products!

Spin down before opening. The pellet might be attached to the lid.

We suggest preparing aliquots to be stored frozen at -20° C. To dilute your probes use PCR grade water or TE buffer.

The storage concentration should be >20 µM.

Be aware that EDTA could affect your PCR! If you use water make sure the pH is neutral. A pH below 7 causes hydrolysis.

On the certificate of analysis you find the amount of water you have to add to your probe for a 100 µM dilution. Simply multiply this x 5 for a 20 µM dilution. Keep one aliquot refrigerated for daily work, this should be good for 1-2 weeks.

Avoid multiple cycles of freezing and thawing!

Store dye labelled probes away from light!

Dual-Labelled-Fluorogenic Probes

Commonly used dyes in real-time PCR:

	Excitation λ max (nm)	Emission λ max (nm)
FAM	495	520
HEX	535	556
CALFluor 560	538	559
TET	521	536
JOE	520	548
CALFluor 540	522	544
TAMRA	544	576
ROX	576	601
CALFluor 610	590	610
Cy3	550	570
Cy5	649	670
IRD700	685	710

Commonly used quenchers in real-time PCR:

	Absorption λ max (nm)	Range(nm)
BHQ- 1™	534	480- 580
BHQ- 2™	579	550- 650
BHQ- 3™	672	620- 730
Dabcyl	453	380- 550
Tamra	544	470- 560

LightCycler™ Probes



Available LC™ Dyes:

LC Red 610™ (only suitable for LC2.0)
LC Red 640™
LC Red 670™ (only suitable for LC2.0)
LC Red 705™
LC Fluorescein

A set of hyb probes consists of a pair of oligonucleotides which can hybridise close-by on a DNA template. One is labelled with fluorescein at it's 3'-end, the other one is labelled at it's 5'-end with either LC610™ / 640™ / 670™ / 705™ and blocked at the 3'-end with a phosphate against extension.

LC™ Probes are delivered in defined amounts of 1 – 30 nmols.

When working with the LC™ the probe concentration should in the range of 0.15-0.20 µM, corresponding to 3-4 pmol probe per 20 µl reaction.

In some cases a reduction of the fluorescein probe or an asymmetric PCR has demonstrated to produce better results.