

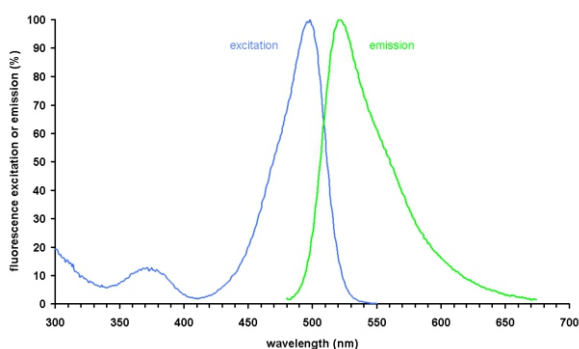
DATA SHEET



SYBR® Green Fluorescent DNA Stain

DNA intercalation dye for real-time PCR analysis
 Staining dye for DNA

Cat. N°.	Amount
<input type="checkbox"/> PCK-303S	500 µL
<input checked="" type="checkbox"/> PCK-303L	5 x 500 µL



Excitation (left) and emission (right) spectra of SYBR Green bound to dsDNA.

For *in vitro* use only!

Shipping:

Shipped on blue ice

Storage Conditions:

Store at -20 °C

Additional Storage Conditions:

Store in the dark

Shelf Life:

12 months

Form:

Orange liquid, supplied in 20 mM Tris-HCl pH 8.5, 0.1 mM EDTA and 0.01 % Tween-20

Concentration:

100 µM

Spectroscopic Properties:

λ_{exc} 495 nm (bound to DNA); λ_{em} 520 nm (bound to DNA)

Description:

SYBR® Green Fluorescent DNA Stain is a superior DNA intercalator dye specially developed for DNA analysis applications including real-time PCR (qPCR). Upon binding to DNA, the non-fluorescent dye becomes highly fluorescent while showing no detectable inhibition to the PCR process. The dye is extremely stable both thermally and hydrolytically, providing convenience during routine handling. SYBR® Green Fluorescent DNA Stain is supplied as 100 µM concentration. Vortex SYBR® Green Fluorescent DNA Stain thoroughly prior to its use. An SYBR® Green concentration of 0.5-1.0 µM in the final assay is recommended. Add SYBR® Green Fluorescent DNA Stain as indicated in the table below per assay. Please note that the preparation of a master mix may be crucial in quantitative PCR reactions to reduce pipetting errors. Select the optical setting for SYBR® Green or FAM on the detection instrument.

Applications:

SYBR® Green Fluorescent DNA Stain is supplied as 100 µM concentration. Vortex SYBR® Green Fluorescent DNA Stain thoroughly prior to its use. An SYBR® Green concentration of 0.5-1.0 µM in the final assay is recommended. Add SYBR® Green Fluorescent DNA Stain as indicated in the table below per assay. Please note that the preparation of a master mix may be crucial

in quantitative PCR reactions to reduce pipetting errors. Select the optical setting for SYBR® Green or FAM on the detection instrument.

FINAL SYBR® GREEN CONCENTRATION	20µL PCR ASSAY	50µL PCR ASSAY
0,5 µM	0,1 µL	0,25 µL
1.0 µM	0,2 µL	0,50 µL

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