

EvoGreen Dye (20× in water)

Cat. No.: E1522561 | Pack size: 1 mL | Storage: -20°C; protected from light

Product Information

Attribute	Value
Pack Size(s)	1 mL
CAS Number	E1522561
Molecular Weight	1082.96
Specifications & Purity	BioReagent, ≥95%
Stability And Storage	Store at -20°C long term (24 months). Store in the dark.
Storage Conditions	Protected from light, Store at -20°C
Shipped In	Ice chest + Ice pads. This product requires cold chain shipping. Ground and other economy services are not available.
Grade	BioReagent

Product Description

EvoGreen Dye (20× in water) is a saturating fluorescent dye for double-stranded DNA binding, with spectral properties similar to SYBR Green I (Ex 495 nm, Em 520 nm), but offers the following three advantages:

1. EvoGreen Dye binds to DNA through a "release-on-demand" mechanism with high sensitivity. Its inhibition of Bst DNA polymerase is much weaker than that of SYBR Green I, making it more suitable for loop-mediated isothermal amplification (LAMP) reactions. Using EvoGreen fluorescent dye allows LAMP amplification products to be detected without opening the reaction tube, avoiding amplicon aerosol contamination caused by open-lid electrophoresis detection and yielding more reliable results.

2. EvoGreen Dye exhibits excellent stability and is not degraded during routine storage, dilution, pipetting and DNA amplification. The dye in buffer solution can be safely stored at room temperature or in a refrigerator, and can also withstand repeated freeze-thaw cycles.
3. EvoGreen Dye is non-mutagenic and barely penetrates cell membranes, ensuring high biosafety.

Protocol

Prepare the amplification reaction mixture following standard procedures. Add EvoGreen Dye at a volume ratio of 1/20 to achieve a final concentration of 1× in the reaction system. No changes to other operating steps or instruments are required.

Purity

≥95%

Contact & Global Offices

Whether you have a technical question, need help with a quotation, or want to inquire about an order, our regional teams are ready to assist. Please contact the office for your region; for general inquiries, the North American office is the corporate primary.

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Limitations & Disclaimer

- For Research Use Only (RUO). Not for use in human or animal diagnostics, therapeutics, or in vivo applications. Not for food, cosmetic, or household use.
- This product is not a CE-marked in vitro diagnostic device under IVDR (EU) 2017/746 and is not an FDA-cleared device under 21 CFR. Use is restricted to verified businesses, institutions, and qualified professionals for research and development purposes.

- Where any kit component is classified as hazardous under CLP (EC) 1272/2008 or OSHA HCS (29 CFR 1910.1200), the product Safety Data Sheet (SDS) takes precedence over this document for handling, storage, and disposal information.
- Performance depends on sample type, sample condition, handling, and operator technique. Users are responsible for validating the kit for their specific application.
- Aladdin product labels, SDS, COA, and approved specifications take precedence over this document. If product formulation, label, SDS, storage conditions, pack size, or quality specifications change, this document would be reviewed and reissued.