

## Specification

### DNA-Dye NonTox

**A9555**

<b>Product Code:</b>	A9555
<b>Product Name:</b>	DNA-Dye NonTox
<b>Specifications:</b>	<p>: ♦ <b>nonhazardous Ethidium bromide substitute</b></p> <p>: • Loading buffer with highly sensitive DNA dye</p> <p>: • contains three tracking dyes</p> <p>: • Visualization of DNA with blue light und UV light</p> <p>: • <i>ready-to-use</i>: supplied as 6X loading buffer</p>
<b>WGK:</b>	1
<b>Storage:</b>	<p>2-8°C</p> <p>protected from light</p>
<b>Shipment:</b>	wet ice
<b>CS:</b>	38220000
<b>Comment</b>	<p>DNA-Dye NonTox is a dye for the staining of DNA in gel electrophoresis. It is as sensitive as ethidium bromide, but lacking the negative properties of ethidium bromide: it is non-hazardous, non-mutagenic and possesses a low toxicity (LC &gt; 5000 mg/kg). Besides, DNA-Dye NonTox complies to the Clean Water Act due to its very low environmental impact. There is no risk of water pollution, as compared to ethidium bromide and there are no special measures to be taken with respect to the waste management. The integrity and structure of DNA won't be affected by staining with DNA-Dye NonTox. Therefore, significantly higher transformation rates are achieved, as compared to ethidium bromide-stained plasmid DNA. DNA-Dye NonTox is supplied as a <i>ready-to-use</i> 6X loading dye, containing three tracking dyes: bromophenol blue, xylene cyanol and orange G. Since the loading dye is added directly to the sample, there is only a very low background staining observed. After the gel run, no destaining is required. DNA-Dye NonTox attaches to DNA strands, but does not intercalate. Due to this mechanism, variations in the migration behaviour between samples and markers were rarely observed. Bands with very low DNA amounts (5-10 ng/band) may migrate slower by up to <math>10 \pm 2\%</math> than the usually higher concentrated size marker bands.</p>

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