

Formaldehyde Fluorimetric Detection Kit (Green)

Cat. No. Kit-2049 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The Fluorimetric Formaldehyde Detection kit uses a proprietary fluorogenic dye that generates a green fluorescent product upon reacting with formaldehyde. The kit provides a sensitive, one-step fluorometric method to detect as little as 1 μ M of formaldehyde in a 100 μ L assay volume. The assay can be performed in a convenient 96-well or 384-well microtiter-plate format and easily adapted to automation without a separation step. Its signal can be easily read by a fluorescence microplate reader at Ex/Em = 410/525 nm.
Size	200 assays
Description	Formaldehyde is an organic compound with the formula CH ₂ O. It is one of the well-identified volatile chemical contaminants responsible for indoor pollution and "building sick" syndrome disease and was recently classified as carcinogenic. The main sources for the CH ₂ O pollution in air include painting, coating material and cigarette smoking. Rapid and accurate measurement of formaldehyde is an important task for biological research, food industry, chemical research and environmental pollution surveillance. There are a few reagents or assay kits available for quantifying formaldehyde. Most of the existing formaldehyde test methods are based on separations either by the tedious and expensive HPLC-MS or GC-MS.
Applications	The assay can be performed in a convenient 96-well or 384-well microtiter-plate format and easily adapted to automation without a separation step.
Storage	Keep Component A in freezer (-20°C) and avoid exposure to light, Component B,

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	C&D at 4°C.
Kit Components	Component A: AldeLight Green 1 vial Component B: Assay Buffer 1 bottle (30 ml) Component C: 37.2% Formaldehyde Standard (12.3M) 1 vial (100 µl) Component D: DMSO 1 vial (100 µl)
Detection method	Microplate microplate reader (Ex/Em = 410/525 nm)

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