



CERTIFICATE OF ANALYSIS

PRODUCT: **DAF-2;** [4,5-Diaminofluorescein]
C₂₀H₁₆N₂O₅, M.W. 364.3

PRODUCT NUMBER: D-1147

LOT NUMBER: A9557

APPEARANCE: Pale Yellow Liquid

FORMULATION: 1 mg in 0.55 ml DMSO

CONCENTRATION: ~5mM

PURITY: ≥98%

PRODUCT DESCRIPTION: Highly sensitive fluorescent probe for the real-time detection of nitric oxide (NO) *in vivo*. In the cell, the product reacts rapidly with NO in the presence of O₂ to form the highly fluorescent compound triazolofluorescein (DAF-2T, Ex 495 nm; Em 515 nm).

USE: Prepare a 500-fold dilution (~10 μM) in phosphate buffer (0.1 M phosphate, pH 7.4) immediately before use. BSA, phenol red and amines may affect the fluorescence and must be used with caution. Do not store diluted solutions.

STORAGE & HANDLING: Store at -20°C. Keep under inert gas.
PROTECT FROM LIGHT! *WARNING: IRRITANT!*
CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: KT