

CERTIFICATE OF ANALYSIS

PRODUCT: BCECF (Free Acid)
M.W. 520 g/mol

PRODUCT NUMBER: B-1095

LOT NUMBER: A9361

APPEARANCE: Orange solid

SOLUBILITY: Soluble in DMSO

DESCRIPTION: Mixture of isomers. Fluorescent pH indicator.

pH: 5.5 (1% aq.soln)

| | <u>SPECIFICATION:</u> | <u>RESULTS:</u> |
|----------------------|---|-----------------|
| PURITY (TLC) | SOLVENT: Reverse phase C ₁₈ 7:3 Methanol/Nano pure water. | |
| | R_f: Solvent front | Confirmed |
| PURITY (HPLC) | COLUMN: C ₁₈ DETECTOR SETTINGS: 2547 nm and 450 nm PURITY: >95% | >95% |

ABSORBANCE SPECTRUM

SOLVENT: 0.2 M aqueous KOH in MeOH

| | |
|--|--|
| λ max: 507 ± 3 nm | 506nm |
| ε: 100,000 M ⁻¹ cm ⁻¹ | 100,000 M ⁻¹ cm ⁻¹ |



FLUORESCENCE SPECTRUM

SOLVENT: 0.2 M KOH in MeOH
Emission λ max: 531 \pm 3 nm 531nm
Excitation λ max: 506 \pm 3 nm 506 nm

STORAGE & HANDLING: Store at -20°C. **PROTECT FROM LIGHT & MOISTURE!**

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