



CERTIFICATE of ANALYSIS

PRODUCT: **Bapta, Tetrapotassium salt (K⁺ Salt)**
M.W. 629 g/mol

PRODUCT NUMBER: B-1087

LOT NUMBER: C1069

SOLUBILITY: Water

DESCRIPTION: Ratiometric Ca²⁺ indicator having a 10⁵ fold greater affinity for Ca²⁺ than Mg²⁺. After complexation with Ca²⁺, the absorption max shifts from 254 nm at pH > 6.

<u>TLC</u>	<u>SPECIFICATIONS:</u>	<u>RESULTS:</u>
Solvent:	C ₁₈ , 3:2 methanol/brine	Confirmed
R_f:	0.7	Confirmed
¹H NMR:	All relevant peaks present	Confirmed

<u>HPLC</u>		
Column:	C ₁₈	
Detector Settings:	285 nm and 254 nm	
Purity:	> 95%	99.9%

ABSORBANCE SPECTRUM

Solvent:	100 mM KCl, 10mM MOPS, 10mM K ₂ H ₂ EGTA, pH7.2	
λ max:	252 ± 3 nm	252nm
ε:	14,500 M ⁻¹ cm ⁻¹ +/-1000	13,050 M ⁻¹ cm ⁻¹

A.G. Scientific, Inc.

6450 Lusk Blvd. Suite E102

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Solvent: 100 mM KCl, 30mM MOPS, 10mM K₂H₂EGTA, pH7.2

λ max: 252 ± 3 nm 252nm

ε: 14,500 M⁻¹cm⁻¹ +/-1000 12,488 M⁻¹cm⁻¹

Solvent: 100 mM KCl, 10mM MOPS, 10mM CaEGTA, pH7.2

λ max: 252 ± 3 nm 252nm

ε: 4,000 M⁻¹cm⁻¹ +/-400 3,300 M⁻¹cm⁻¹

Solvent: 100 mM KCl, 30mM MOPS, 10mM CaEGTA, pH7.2

λ max: 252 ± 3 nm 252nm

ε: 4,000 M⁻¹cm⁻¹ +/-400 3,300 M⁻¹cm⁻¹

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: DD