



## CERTIFICATE of ANALYSIS

**PRODUCT:** FURA-2 Low Affinity (K + Salt)  
M.W. 854 g/mol, CAS# [113694-64-7]

**PRODUCT NUMBER:** F-1046

**LOT NUMBER:** B1827

**APPEARANCE:** Off-white to yellow film

**SOLUBILITY:** Soluble in water

**PURITY (HPLC):** 99%

**K<sub>d</sub>:** 25  $\mu$ m at 37°C

**DESCRIPTION:** A ratiometric dye with the same fluorescent properties as and similar applications to FURA-2, but has a lower affinity for calcium, and is insensitive to magnesium.

<u>TLC</u>	<u>SPECIFICATIONS:</u>	<u>RESULTS:</u>
Solvent:	7:3 Methanol/Water	
R <sub>f</sub> :	Solvent front	Confirmed

<u>HPLC</u>		
Column:	C <sub>18</sub>	
Settings:	254 nm, 371 nm	
Purity:	>90%	96%

### ABSORBANCE SPECTRUM

Solvent:	Methanol	
$\lambda$ max:	360 $\pm$ 3 nm	358 nm

# A.G. Scientific, Inc.

6450 Lusk Blvd. Suite E102  
SAN DIEGO, CA  
92121



---

$\epsilon$ : 33,000 M<sup>-1</sup>cm<sup>-1</sup> 33,000 M<sup>-1</sup>cm<sup>-1</sup>

## FLUORESCENCE SPECTRUM

Solvent:	Methanol	
Excitation $\lambda$ max:	362 $\pm$ 3 nm	362 nm
Emission $\lambda$ max:	460 $\pm$ 3 nm	461 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: DD