

## CERTIFICATE OF ANALYSIS

PRODUCT NAME: 2,2'-Biquinoline-4,4'-dicarboxylic acid,90%

ITEM NUMBER: D113512  
BRAND: Aladdin  
CAS NUMBER: 1245-13-2  
MDL NUMBER: MFCD00068342  
FORMULA: C<sub>20</sub>H<sub>12</sub>N<sub>2</sub>O<sub>4</sub>  
MOLECULAR WEIGHT: 344.32

TEST	SPECIFICATION		TARGET VALUE
	MIN.	MAX.	
Appearance	White to brown powder, crystals and/or chunks		
Proton NMR spectrum	Conforms to Structure		
Purity(HPLC)	90 %	100 %	100 %
Solubility in hot 0.1M Sodium Hydroxide	Colorless, Clear, 100mg/ml		