

## CERTIFICATE OF ANALYSIS

PRODUCT NAME: Bilirubin,98%

ITEM NUMBER: B104211  
BRAND: Aladdin  
CAS NUMBER: 635-65-4  
MDL NUMBER: MFCD00005499  
FORMULA: C33H36N4O6  
MOLECULAR WEIGHT: 584.66

TEST	SPECIFICATION		TARGET VALUE
	MIN.	MAX.	
Appearance	Orange to Brown Powder		
Infrared spectrum	Conforms to Structure		
Lambda max.(CHCl <sub>3</sub> )	450 nm	454 nm	454 nm
Molar extinction coefficient(CHCl <sub>3</sub> , 450.0-454.0 nm)	59900	61500	61500
Proton NMR spectrum	Conforms to Structure		
Purity by UV(EmM = 60 at 453 nm, CHCl <sub>3</sub> )	98 %	100 %	100 %
Purity(HPLC)	98 %	100 %	100 %
Solubility in CHCl <sub>3</sub>	Yellow to Orange,Clear to Hazy(0.1 mg/ml)		