

## Certificate of Analysis

Date of Testing: 2023-01-29 10:52:12  
Date of Next Testing: 2026-01-28 10:52:12  
Product Name: **5,10,15,20-Tetrakis(4-trimethylammoniophenyl)porphyrin tetra(p-toluenesulfonate)**  
CAS Number: 69458-20-4  
Specifications & Purity: Dye content 90%  
Lot #: A2314335  
SKU #: **T478381**  
Analysis: **173104**

Parameter	Limit Values	Result
Purity(HPLC area)	90-100 (%)	99.44 %
Extinction Coefficient(Wavelength 410-414 nm,In Water)	$\geq 320000$	333090.92390
Infrared spectrum	conforms to structure	Conforms to Structure
Appearance(T478381)	Purple to Very Dark Purple Powder	Purple to Very Dark Purple Powder



John Su  
QA & QC Manager