

## Certificate of Analysis

Date of Testing: 2023-06-25 16:59:59  
Date of Next Testing: 2027-06-24 16:59:59  
Product Name: **Indigo carmine**  
CAS Number: 860-22-0  
Specifications & Purity: 96% , indicator (pH 11.5-14.0)  
Lot #: F2315306  
SKU #: **I105009**  
**Analysis: 190289**

Parameter	Limit Values	Result
Loss on drying	0-10 (%)	5.94 %
$\lambda$ max(H <sub>2</sub> O)	603-613 (nm)	612.00 nm
Purity(HPLC)	96-100 (%)	96.09100 %
Appearance (I105009)	Blue to Dark Blue and Purple to Dark Purple Powder	Blue to Dark Blue and Purple to Dark Purple Powder
PH Transition interval,11.5(blue) – PH 14.0(yellow)	Conforms	Conforms
Solubility in MeOH , Blue to very Deep Blue,0.01g/ 10ml	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager