The standard curve of Congo red dye

Concentration Analysis Report

Report time 1/12/2010 12:15:01 AM

Batch name E:\Goda PhD work\Congo Red 01-04-2021\Calibration

 Curve of CR.BCN

Application Concentration 3.00(182)

Operator

Instrument Settings

Instrument Cary 5000

Instrument version no. 1.12

Monochromator version no. 4.01

Slit version no. 4.00

Wavelength (nm) 500.00

Ordinate Mode Abs

SBW (nm) 1.500

Ave Time (sec) 0.100

Beam mode Double auto select

Beam interchange Normal

Replicates 3

Standard/Sample averaging OFF

Weight and volume corrections OFF

Fit type Linear

Min R² 0.95000

Concentration units mg/L

Comments:

Calibration

Collection time 1/12/2010 12:15:53 AM

 Standard Concentration F Mean SD %RSD Readings

 mg/L

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Std 1 0.0156

 0.0156

 1.0 0.0156 0.0000 0.11 0.0156

Std 2 0.0253

 0.0253

 2.0 0.0253 0.0000 0.05 0.0253

Std 3 0.0397

 0.0397

 3.0 0.0397 0.0000 0.12 0.0398

Std 4 0.0469

 0.0469

 4.0 0.0469 0.0000 0.04 0.0469

Std 5 0.0674

 0.0674

 5.0 0.0674 0.0000 0.07 0.0675

Std 6 0.0823

 0.0823

 6.0 0.0823 0.0000 0.03 0.0823

Std 7 0.1076

 0.1076

 8.0 0.1076 0.0000 0.01 0.1076

Std 8 0.1317

 0.1318

 10.0 0.1317 0.0001 0.06 0.1318

Std 9 0.1546

 0.1547

 12.0 0.1547 0.0000 0.02 0.1547

Std 10 0.1908

 0.1909

 15.0 0.1908 0.0000 0.02 0.1909

Std 11 0.2146

 0.2146

 17.0 0.2146 0.0000 0.00 0.2146

Std 12 0.2544

 0.2544

 20.0 0.2544 0.0000 0.01 0.2544

Calibration eqn Abs = 0.01262\*Conc +0.00264

Correlation Coefficient 0.99856

Calibration time 1/12/2010 12:30:37 AM