9.02.2024

JOB CARD NO. RDKL/2324/FW/J00379/J00394/J00419/J00423
Sample Requisition No. ~~xxx~~ FW/SR00059, SR00060, SR00061, SR00062
Allocation Dt. 8.02.2024 Out. Dt. 14.02.2024 Parameter: COD
9.02.2024

Name of supervisor: Mr. A. Rafique

Standardization of FAS
10 ml, 0.025 (N) $K_2Cr_2O_7$ consumed 23.4 ml of FAS
∴ strength of FAS = 0.01068

Sample Code	Dilution	Vol. (ml)	FAS consumed (Final − Initial) ml	Conc. mg/L
Blank	Direct	20 ml	23.0 − 0 = 23.0	—
L00117	Diret	20 ml	22.5 − 0 = 22.5	2.14 ≃ 2 mg/L
L00118	Direct	20 ml	44.3 − 22.5 = 21.8	5.12 ≃ 5 mg/L
L00119	Direct	20 ml	22.5 − 0 = 22.5	2.14 ≃ 2 mg/L
L00120	Direct	20 ml	43.6 − 23.0 = 20.6	10.25 ≃ 10 mg/L
L00121	Direct	20 ml	21.4 − 0 = 21.4	6.8 ≃ 7 mg/L
L00122	Direct	20 ml	21.2 − 0 = 21.2	7.67 ≃ 8 mg/L
L00123	Direct	20 ml	42.8 − 21.2 = 21.6	5.98 ≃ 6 mg/L
L00124	Direct	20 ml	21.9 − 0 = 21.9	4.7 ≃ 5 mg/L
L00125	Direct	20 ml	44.1 − 21.9 = 22.2	3.42 ≃ 3 mg/L
KHP	10 D 5−50 ml	20 ml	12.0 − 0 = 12.0	46.9 ≃ 47 mg/L

कि. मिश्रा

13.02.24

Calculation : $\frac{(B-A) \times N \times 8000}{\text{ml of Sample}}$

B = FAS consumed by blank
A = FAS consumed by sample
N = Normality of FAS

जि. पिंडरा

Sample code	Dilution	Vol. (ml)	FAS consumed (Final - Initial) ml	Conc. mg/L
L00112	Direct	20 ml	22.4 - 0 = 22.4	2.6 ≅ 3 mg/L
L00113	Direct	20 ml	21.1 - 0 = 21.1	8.1 ≅ 8 mg/L
L00114	Direct	20 ml	42.3 - 21.1 = 21.2	7.7 ≅ 8 mg/L
L00115	Direct	20 ml	20.5 - 0 = 20.5	10.7 ≅ 11 mg/L
L00116	Direct	20 ml	42.3 - 20.5 = 21.8	5.1 ≅ 5 mg/L

Calcullation : $\frac{(B-A) \times N \times 8000}{\text{ml of sample}}$

B = FAS consumed by blank
A = FAS consumed by sample
N = Normality of FAS

जि पिंडरा

13.02.24