

Standardisation of colour unit →

Stocking 500 cu for 100 ml solution.

Working colour ~~standard~~ standard

1 ml vol. makes upto 100

2 ml " " " 100

3 ml " " " 100

6 ml " " " 100

8 ml " " " 100

10 ml " " " 100

20 ml " " " 100

Colour Unit (cu)

5 cu

10 cu

15 cu

30 cu

40 cu

50 cu

100 cu

1 cu is equal to 1 Hazen unit & 1 pt-co unit.

Sample code	Dilution	Sample Volume (ml)	Colour Unit (cu)
1. SR-10 (L00009)	Direct	50	5
2. SR-12 (L00008)	"	"	5
3. SR-16 (L00007)	"	"	30
4. " (L00009)	"	"	10
5. " (L00011)	"	"	15
6. " (L00012)	"	"	10
7. " (L00014)	"	"	10
8. " (L00015)	"	"	10
9. SR-14 (L00010)	"	"	5
10. " (L00011)	"	"	5
11. SR-17 (L00016)	"	"	35
12. SR-17 (L00019)	"	"	15
13. " (L00020)	"	"	30
14. " (L00021)	"	"	15
15. SR-19 (L00022)	"	"	30
16. " (L00024)	"	"	15
17. SR-20 (L00025)	"	"	10
18. " (L00028)	"	"	10
19. SR-15 (L00012)	"	"	5
20. SR-15 (L00001)	"	"	20 ✓
21. " (L00003)	"	"	20
22. SR-14 (L00004)	"	"	20
23. " (L00005)	"	"	15

13.10.23

Sample Registration →

- ① RDKL/~~2324~~FW/2324/SK00011
- ② RDKL/FW/2324/SK00012
- ③ RDKL/FW/2324/SK00014

Sample code →

SR-14. RDKL/2324/FW/00077
(2324/RDKL/FW/FW/L00009)

SR-12 → 2. RDKL/2324/FW/00078 (2324/RDKL/FW/FW/L00008)

SR-14 → 3. RDKL/2324/FW/00107 (2324/RDKL/FW/FW/L00010)

4. RDKL/2324/FW/00108 (2324/RDKL/FW/FW/L00011)

Parameters → COD

Test material - water

Date of allotment → 5/10/23 - 6/10/23

Date of analysis → 16/10/2023

Date of submission → 19/10/23 - 20/10/23

Name of supervisor → Md. Rafique

Standardisation of FAS →

10 ml of 0.025(N) K₂Cr₂O₇ consumed →

ml of FAS	Avg (ml)	Strength of FAS
i) 25.2	25.2	0.0099
ii) 25.1		
iii) 25.3		

Sample Code	Dilution	Sample Vol (ml)	Initial burette reading (IR)	Final burette reading (FR)	FAS Cond (FR-IR)	(Blank - Sample)	COD (mg/l)
1. Blank	Direct	20	0	25	25		
2. KHP	10 times	4	25	37.7	12.7	12.3	48.7 = 49
3. SR-12 (L00008)	Direct	4	0	24.1	24.1	0.9	3.6 ≈ 4
4. SR-11 (L00009)	"	4	24.1	48.3	24.2	0.8	3.2 ≈ 3
5. SR-14 (L00010)	"	4	0	24	24	1	3.9 ≈ 4
6. SR-14 (L00011)	"	4	24	48.2	24.2	0.8	3.2 ≈ 3

Calculation - $\frac{(B-A) \times 2 \times 1000 \times N}{\text{Sample Vol (ml)}}$, where B - FAS cond by blank
 A - " " " Sample
 N - Normality of FAS

Jw

18.10.23