

Sample acquisition no. - RDKL/FW/2324/SR0014

Allocation Date - 6/10/2023

Due date - 10/10/2023

Test start date - 9/10/2023

Test end date - 9/10/2023

Parameter - F⁻

Name of the Supervisor - Md. A. Rafique.

Std. curve experiment done on 6/10/2023

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Sample code.	Vol, ml	Dilution Factor	Abs @ 570nm	Conc (mg/L)
2324/RDKL/FW/L00010	50	1	0.277	0.53
" 1200011	50	1	0.266	0.58

④ Calculation -

Hence, the absorbance of all the samples lies within the linear range recommended by APHA i.e. 0.00 - 1.40^{mg/L} (Abs = 0.388 - 0.109), The following equation was used to determine conc. of F⁻ in the samples

$$y = -0.2021x + 0.3835$$

where, y = Abs. of Sample; x = Conc. of the Sample

Abs. of blank	Abs. of 1mg/L F ⁻ std.	% deviation of the derived concs.
0.388	0.180	0.69

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10.10.23

Sample requisition no. - RDKL / FW / 2324 / SR00011

Allocation Date - 5/10/2023

Due date - 19/10/2023

Sample requisition no. - RDKL / FW / 2324 / SR00012

Allocation Date - 5/10/2023

Due date - 19/10/2023

Test start date - 6/10/2023

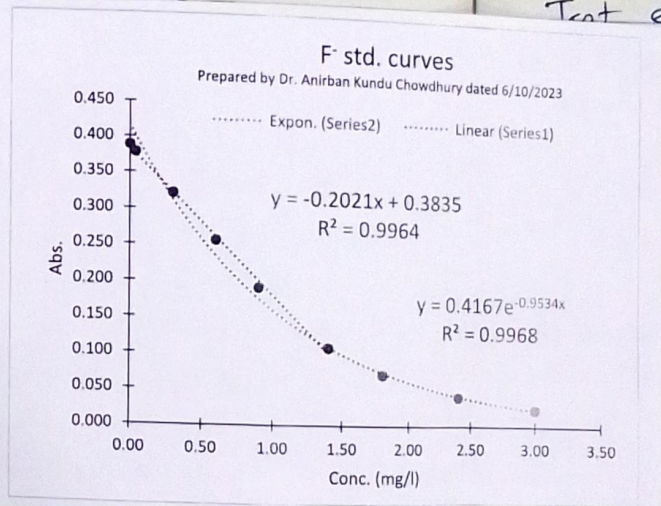
Test End. date - 6/10/2023

Parameter - F⁻ (Fluoride)

Name of the Supervisor - Md. A. Rafique

Std. curve experiment done @ 570 nm

Std. (mg/L)	Vol, ml.	Abs@ 570 nm
0.00 (Blank)	50	0.388
0.04	50	0.378
0.30	50	0.322
0.60	50	0.257
0.90	50	0.192
1.40	50	0.109
1.80	50	0.072
2.40	50	0.041
3.00	50	0.024



Sample code	Vol, ml.	Dilution Factor	Abs@ 570 nm	Conc (mg/L)
2324 / RDKL / FW / FW / L00009	50	1	0.294	0.44
" " / L00008	50	1	0.307	0.38

Calculation.

* Hence, the absorbance of all the samples lies within the linear range recommended by APHA i.e., 0.00 - 1.40 mg/L (Abs = 0.388 - 0.109), The Following equation was used to determine conc. of F⁻ in the samples.

$$y = -0.2021x + 0.3835$$

Where y = Abs. of the samples, X = conc. of the samples (mg/L)

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Sample requisition no.
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Parameter
Name of the Supervisor
Std. curve experiment done @
Calculation
Hence, the absorbance of all the samples lies within the linear range recommended by APHA i.e., 0.00 - 1.40 mg/L (Abs = 0.388 - 0.109), The Following equation was used to determine conc. of F⁻ in the samples.
Where y = Abs. of the samples, X = conc. of the samples (mg/L)

Sample code
2324 / RDKL / WW

2324 / RDKL / WW

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