

Shri Shivaji Education Society's Board for Higher Education Vidyanagar Karad





YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

Department Of Chemistry

Year 2022-23

Name of activity- "Determination of organic carbon from Soil."

Index

Sr. No.	Name
1.	Mrunal Patil
2.	Muskan Shaikh
3.	Dhanashri Ghadage
4.	Shruti Ghatake
5.	Rutuja Patil
6.	Aishwarya Jagtap
7.	Pratiksha Jadhav
8.	Nilam Jadhav
9.	Tabassum Bardol
10.	Vaishnavi Chavan
11.	Sanika Tapase
12.	Ankita Pisal
13.	Vishakha Sabale
14.	Samruddhi Patil
15.	Sayali Yadav
16.	Kanchan Waghmare
17.	Apurva A Babar
18.	Anjali Mugutrao Patil

Head

Department of Chemistry
Yashwantrao Chavan College of
Science, Karad



Principal
Yashwantrao Chavan College
of Science, Karad

Yashwantrao Chavan College of Science, Karad

Department of Chemistry Extension Activity 2022-23

Name of activity- "Determination of Organic Carbon from Soil."

	_			
Purpose:	Environmental Awa	Environmental Awareness: Increase awareness about the role of soil		
_	carbon in environm	carbon in environmental processes, such as carbon sequestration,		
	greenhouse gas mitig	ation, and soil health.		
	Agricultural Implications: Highlight the relevance of soil carbon			
	measurements for agriculture, including its impact on soil fertility,			
	nutrient cycling, and overall crop productivity.			
	Practical Application: Illustrate how knowledge of soil carbon can be			
	practically applied in making informed decisions regarding land			
	management, sustainable agriculture, and environmental conservation.			
No. of beneficiaries:	18			
Outcome/ success achieved:	Practical Skills: Proficiency in soil carbon determination techn			
	including various methods, sample preparation, and data interpretation.			
	Theory-to-Practice Connection: Bridging theoretical knowledge with			
	practical application, demonstrating the application of scientific			
	principles in real-world scenarios.			
	Carbon Sequestration Benefits: Awareness of the potential for			
_ 8	agriculture to contribute to carbon sequestration, mitigating the effects			
Ý	of climate change through soil carbon management.			
Teachers involved in the activity	Prof. Dr. S. H. Burungale Prof. Dr. A. V. Mali Mr. A. N. Bhing		. A. N. Bhingare	
	Dr. R.S. Patil	Mr. B. E. Mahadik Mr.	. G. B. Dhake	
	Dr. U. P. Lad	Mr. S. D. Karande Dr.	S. D. Jadhav	
	Mrs. P. P. Patil	Mrs. S. R. Veer Mr	s. M. B. Jagadale	









Head
Department of Chemistry
Yashwantrao Chavan College of
Science, Karad



Principal,
Yashwantrao Chavan College
of Science, Karad

Department of Chemistry

Aim - Determination of organic carbon from Soil

Date- 23-01-2023

No Name of Students Address Mobile No. Sign 1. Patil Morun al At Post-Kale 7620702872 Sthrung. 2. Muskam Shaikh Mujawar Colong Rarad 8308955861 Okka. 3. Ghadage Dhanashri At Targaan Tal-Koregaan 3503785987 Strady H Brakeke shouti At Post charegar Tal-karad slike 8263989888 Sections 5. Patil Rutuja At Post Morpeth Tal-karad 8010343145 Assaylar 6. Jagtap Aishwarya At Post - Vadgaon H. Tal-karad 8010343145 Assaylar 7. Jadhau Ratiksha Atpshere stal-karad 8010343145 Assaylar 8. Jadhau Ni Iam Alpsheee thosamalarul - karad 9359384247 Ogadhau 9. Bardol Tabassum Alpsheee thosamalarul - karad 7359167999 Whowam 10. Chavan Vaishnavi Alp-vanwamachi Tal-karad 7559167999 Whowam 11. Tapose sanika 160, Budhwar Peth Korad 7559167999 Whowam 11. Tapose sanika 160, Budhwar Peth Korad 7058122352 Pisal 12. Pisal Ankita Atpst-kaswadi Tal-karad 7058122352 Pisal 13. Sabale Vishakha Atp-Maldan Tal-petan 8180917553 Sebale 14. Patil Samzuddhi Atp-91dhe Tal-Petan 8180917553 Sebale 15. Yadav Sayali Alp Norayanwadi Tal-karad 9834488585 Bayali 16. Waannune Kurchan Alp Tosuesele tal-karad 1814-5600 Pisal-Salon 1000000000000000000000000000000000000	Sr.				
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			Karad		

Department of Chemistry

Aim - Determination of organic carbon from Soil

Date: 23 1 2023

Name of Students- Tapase Sarika Rajendeo 160. Rudhwat, peth karad.

Blank Titration

Back Titration

$$CBR = \frac{63}{3} = 21 \text{ m}$$

CBR =
$$\frac{63}{3}$$
 = 21 m | CBR = $\frac{55}{3}$ | \(\)8.3 m | \(\)% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount of soil sample in gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K₂CrO₇ solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K₂CrO₇ solution (sample reading)

$$0.003 = 1 \text{ ml of } 1 \text{ N } K_2CrO_7 = 3 \text{ mg } = 0.003 \text{ g of } C$$

7.
$$c = \frac{(x-y) \times N \times 0.003}{Amount of soil sampleingm} \times 100$$

= $\frac{(21-18.3) \times 0.5 \times 0.003}{1} \times 100$
= $\frac{0.40 \cdot 1}{1}$



Department of Chemistry

Aim - Determination of organic carbon from Soil

Name of Students- Tapase Sanika Rajendea Address - 160, Budhwar peth, Karad. 23/1/2023

% of Organic Carbon in Soil is : O , 40 1

Limit:

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Chavan College Chemistry Chemistry College Chemistry College Chemistry College Chemistry Chemist

Head Of Department

Department of Chemistry

Aim - Determination of organic carbon from Soil

Date: 23/1/2023

Name of Students- Yaday Sayali Pandit

Address - A/P. Narayanwadi Tal. Karad, Dist. Satara

Blank Titration

1. 33 m

1. 3/ 10/

2. 33 m 2. 30.5 ml.

3. 31 ml 3. 32 m) CBR = 33 m/ CBR = 3 / m /

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount of soil sample in gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K₂CrO₇ solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K₂CrO₇ solution (sample reading)

 $0.003 = 1 \text{ ml of } 1 \text{ N } \text{K}_2\text{CrO}_7 = 3 \text{ mg} = 0.003 \text{ g of } \text{C}$

·/. of organic Carbon in Soil = CX-Y) XN X 0.003

Amount of soil sampleingm

= (33-31) X 0.5 X 0.003 X 100

Back Titration

= 0.3%



In this soil Contain 0.3%. Carbon Conclusion -

Department of Chemistry

Aim - Determination of organic carbon from Soil

Name of Students- Yadav Sayali Pandit

Address - A/P Narayanwadi Tal. Karad, Dist. Satara

% of Organic Carbon in Soil is: 0.3 /,

Limit:

Low : < 0.5 %

Medium : 0.5 - 0.75 %

High : > 0.75 %



Head Of Department

Date/23-1-2023

Department of Chemistry

Aim - Determination of organic carbon from Soil

Date: 23-01-2023

Name of Students- WAGHMARE KANCHAN BABAN

Address - AIP - Taswade Tal-Kuraal. Dist - Salara

Blank Titration

1.33 m

2. 82 ml

3. 93 m

CBR = 33 m)

Back Titration

3. S\ m\

CBR = 3/ m/

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount of soil sample in gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K₂CrO₇ solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

 $0.003 = 1 \text{ ml of } 1 \text{ N } \text{K}_2\text{CrO}_7 = 3 \text{ mg} = 0.003 \text{ g of C}$

1. of organic curbon in soil = (x-4) x N x 0.003

Amount of soil sample in 90

= (33-31) × 0.5 × 0.003 × 100



In this soil contain o. 3. 1. Curbon Conclusion -

Department of Chemistry

Aim - Determination of organic carbon from Soil

Name of Students- WAGHMARE KANCHAN BABAN

Address - A/P Togwoole, Tou- Kanad, Olst- sware.

% of Organic Carbon in Soil is: 5 · 3 · 1.

Limit:

Low : < 0.5 %

Medium : 0.5 - 0.75 %

High : > 0.75 %

Head Of Department

Department of Chemistry

Aim - Determination of organic carbon from Soil

Date: 23-0|-2023

Name of Students-Babar Apurua Abasaheb.

Address - Alp. Kapil Tal. Karad Dist. Satara.

Blank Titration

Back Titration

% of Organic Carbon in Soil =
$$\frac{(X-Y)*N*0.003}{Amount of soil sample in gm} * 100$$

X= Volume of 0.5 N FAS required for reducing 10ml K₂CrO₇ solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K₂CrO₇ solution (sample reading)

$$0.003 = 1 \text{ ml of } 1 \text{ N } \text{K}_2\text{CrO}_7 = 3 \text{ mg} = 0.003 \text{ g of C}$$



Conclusion- In this soil contain 0.15% carbon.

Department of Chemistry

Aim - Determination of organic carbon from Soil

Name of Students-Babar Apurua Abasaheb.

Address - A/P Kapil tal. Karad dist. Salara.

% of Organic Carbon in Soil is: 0.5 //

Datel-23-1-2023

Limit:

Low : < 0.5 %

Medium : 0.5 – 0.75 %

High : > 0.75 %

Head Of Department

Department of Chemistry Yashwantrao Chavan College of

Science, Karad

Department of Chemistry

Aim - Determination of organic carbon from Soil

Date: 23/1/23

Name of Students- MUSkam Javid Sharkh Address - Mujawar Colomy Karad

Blank Titration

Back Titration

20 ML

$$CBR =$$

% of Organic Carbon in Soil =
$$\frac{(X-Y)*N*0.003}{Amount of soil sample in gm} * 100$$

X= Volume of 0.5 N FAS required for reducing 10ml K₂CrO₇ solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

$$0.003 = 1 \text{ ml of } 1 \text{ N } K_2 CrO_7 = 3 \text{ mg } = 0.003 \text{ g of } C$$

% of organic carbon in Soil =
$$(n-y) \times N \times 0.003$$

Amount at soil sample ingm
= $(20-18.33) \times 0.5 \times 0.003$
 $= 0.27$



Conclusion -This soil contant 0.2% Corbon

Department of Chemistry

Aim - Determination of organic carbon from Soil

Name of Students-MUSkan Javid Sharkh Address - Mujawar colany karad

% of Organic Carbon in Soil is:

Limit:

Low : < 0.5 %

Medium : 0.5 - 0.75 %

High : > 0.75 %

Chavan Color of Color

Head Of Department

Department of Chemistry

Aim - Determination of organic carbon from Soil

Date: 23-1-23

Name of Students- Patil Mounal Sunjakant Address - At. Post - Kale, Tal- Karrad, Dist-Satara.

Blank Titration

1. 20 m

2. 21 m

3. 21 M

CBR = 21 M

Back Titration

M

18

20 MJ

CBR = 18.33

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount of soil sample in gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K₂CrO₇ solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

 $0.003 = 1 \text{ ml of } 1 \text{ N K}_2\text{CrO}_7 = 3 \text{ mg} = 0.003 \text{ g of C}$



This Soil Contain 0.4% Carbon. Conclusion -

Department of Chemistry

Aim - Determination of organic carbon from Soil

Name of Students- Patil Moneral Surgakant Address - At. Post-Kale, Tal-Karrad, Dist-Satara

% of Organic Carbon in Soil is: 0.4%

Limit:

Low : < 0.5 %

Medium : 0.5 - 0.75 %

High : > 0.75 %



Head Of Department

Department of Chemistry

Aim - Determination of organic carbon from Soil

Date: 23/01/2028

Name of Students-chavan Vaishnani Vishwas

Address-Alp-Vanwasmachi, Tal-karad, dist-satura.

Blank Titration

Back Titration

$$CBR = 22.33 \text{ m}$$

% of Organic Carbon in Soil =
$$\frac{(X-Y)*N*0.003}{Amount of soil sample in gm} * 100$$

X= Volume of 0.5 N FAS required for reducing 10ml K₂CrO₇ solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

$$0.003 = 1 \text{ ml of } 1 \text{ N } \text{K}_2\text{CrO}_7 = 3 \text{ mg} = 0.003 \text{ g} \text{ of } \text{C}$$

$$(27.33)$$
 $-(22.33) \times 0.5 \times 0.003 \times 100$



Conclusion - This soil (ontain 0.75% carbon

Department of Chemistry

Date-23/01/2023

Name of Students-chavan vaishnam vishwas.

Address-Ap-Vanwasmachi, Tel-karad, dist-satara.

% of Organic Carbon in Soil is: 0.75%

Limit:

Low : < 0.5 %

Medium 0.5 - 0.75 %

High : > 0.75 %

Head Of Department

Department of Chemistry

Aim - Determination of organic carbon from Soil

Date: 23 1 23

Name of Students- Patil Rutaja Arvind

Address - At Post Malharpeth tal-Patan, Distigatora

Blank Titration

Back Titration

1. 23 ml

1. 12 ml

2. 19 ml

2. 12 01

3. 25 ml

3. 10 ml

CBR = 22 ml

CBR = 11.ml

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount of soil sample in gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K₂CrO₇ solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K₂CrO₇ solution (sample reading)

 $0.003 = 1 \text{ ml of } 1 \text{ N } \text{K}_2\text{CrO}_7 = 3 \text{ mg} = 0.003 \text{ g of C}$

"In of organic carbon in soil =
$$\frac{(x-y)Nx0.003}{amount-ofsoilsample}$$

in gm
= $\frac{(26-(22-11)x0.5x0.003}{1}$ 100
= $\frac{(11)}{1}$ $\frac{1}{1}$ $\frac{1}{1$

Conclusion - The Soil carbon contain = 1.65%



Department of Chemistry

23/1/23

Aim - Determination of organic carbon from Soil

Name of Students- Patil Rutaja Arvind.

Address - Al Post - Malharpeth, Tal-Patan, Dist-satara.

% of Organic Carbon in Soil is : 1.65.

Limit:

Low : < 0.5 %

Medium : 0.5 - 0.75 %

High : > 0.75 %

Head Of Department

Department of Chemistry

Aim - Determination of organic carbon from Soil

Name of Students-Chatake shouti Bajirov

Address - At. Post, chregar, Tal. Karad, Dist, Satara

Date: 23- 1-2023

Blank Titration

1. 25 ml

2. 19 ml

3. 21 M

CBR = 21

Back Titration

1.12 01

2.12 m

3.9 m/

CBR = 11

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount of soil sample in gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K₂CrO₇ solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

 $0.003 = 1 \text{ ml of } 1 \text{ N K}_2\text{CrO}_7 = 3 \text{ mg} = 0.003 \text{ g of C}$

7. of organic carbon in Soil =
$$\frac{\text{Coe-y}) \times \text{N} \times \text{O} \cdot \text{OOS}}{\text{amount of Soil sample}} \times \text{Ioo}$$

$$= \frac{(\Omega I - II) \text{O.5} \times \text{O.00S}}{1} \times \text{Ioo}$$

$$= \frac{1.5 \%}{1}$$



Date = 29-1-2023

Extension Activity 2022-23

Department of Chemistry

Aim - Determination of organic carbon from Soil

Name of Students-Ghatake shruti Bajirrav

Address - At Post, chregar Tal Karad, Dist Satara

% of Organic Carbon in Soil is : 1.5 %.

Limit:

Low : < 0.5 %

Medium : 0.5 - 0.75 %

High : > 0.75 %

Open Chicago Character Chicago Chicago

Head Of Department

Department of Chemistry

Aim - Determination of organic carbon from Soil

Date: 23 | 0 | | 2023

Name of Students- Jagtap Aishwarya shankar.

Address - At post - Vadgoon Haveli, Tal-karad, Dist - Satara.

Blank Titration

Back Titration

$$CBR = 15 \text{ m}$$

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount of soil sample in gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K₂CrO₇ solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K₂CrO₇ solution (sample reading)

0.003 = 1 ml of 1 N K₂CrO₇ = 3 mg = 0.003 g of C
7. of organic Carbon in soil =
$$\frac{(\chi - \chi) N \times 0.003}{\text{amount of soil sample}} \times 100$$

= $\frac{(23-15) \times 0.5 \times 0.003}{1000} \times 100$
= $\frac{(\chi - \chi) N \times 0.003}{1000} \times 100$
= $\frac{(\chi - \chi) N \times 0.003}{1000} \times 100$
= $\frac{(\chi - \chi) N \times 0.003}{1000} \times 100$

The soil carbon contain = 1.2%



Department of Chemistry

Date - 23/10/2023

Aim - Determination of organic carbon from Soil

Name of Students- Jagtap Aishwarza Shankar.

Address - At Post- Vadgaon Haveli, Tal-karad, Dist-Satara

% of Organic Carbon in Soil is:

1.2%

Limit:

Low

: < 0.5 %

Medium : 0.5 - 0.75 %

High

: > 0.75 %

Head Of Department

Department of Chemistry Yashwantrao Chava College of

Science, Karao

Department of Chemistry

Aim - Determination of organic carbon from Soil

Date: 23/1/23

Name of Students- Patil Anjali Mugutoao.

Address - AT. Post - Vihe, Tal - Patan, Dist. - Satava.

Blank Titration

$$CBR = 22 m$$

Back Titration

$$CBR = 18.33 m$$

% of Organic Carbon in Soil =
$$\frac{(X-Y)*N*0.003}{Amount of soil sample in gm} * 100$$

X= Volume of 0.5 N FAS required for reducing 10ml K₂CrO₇ solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K₂CrO₇ solution (sample reading)

$$0.003 = 1 \text{ ml of } 1 \text{ N } K_2CrO_7 = 3 \text{ mg } = 0.003 \text{ g of } C$$



Department of Chemistry

Aim - Determination of organic carbon from Soil

Name of Students- Patil Anjali Mugutvao.

Address - AT. Post - Vine, Tal. - Patan, Dist. - Satava.

% of Organic Carbon in Soil is : 0.5 /

Limit:

Low : < 0.5 %

Medium : 0.5 - 0.75 %

: > 0.75 % High



Head Of Department

Department of Chemistry

Aim - Determination of organic carbon from Soil

Date: 23-1-2023

Name of Students- Bardol Tabassum Moula

Address - A/P. Rethate BKII, Tal-Karad, Dist - Sotara

Blank Titration

% of Organic Carbon in Soil =
$$\frac{(X-Y)*N*0.003}{Amount of soil sample in gm} * 100$$

X= Volume of 0.5 N FAS required for reducing 10ml K₂CrO₇ solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K₂CrO₇ solution (sample reading)

$$0.003 = 1 \text{ ml of } 1 \text{ N } \text{K}_2\text{CrO}_7 = 3 \text{ mg} = 0.003 \text{ g of } \text{C}$$

% of organic carbon in soil =
$$\frac{(x-y)\times N\times 0.003}{\text{amount of soil sample in gram}} \times 100$$

= $\frac{(27.33) - (22.66) \times 0.5 \times 0.003}{1} \times 100$
= $\frac{0.7}{\%}$



Department of Chemistry

Aim - Determination of organic carbon from Soil

23-1-2023

Name of Students- Bardol Tabassum Moula Address - A/P. Rethane BK, Tal- Kaltad, Dist - satura

% of Organic Carbon in Soil is : 0.7 %

Limit:

: < 0.5 % Low

Medium : 0.5 - 0.75 %

High : > 0.75 %

Head Of Department

Department of Chemistry

Aim - Determination of organic carbon from Soil

Date: 23/1/2023

Name of Students- Pisal Ankita Frakash

Address - AT Post - karawadi, Tal - Karad, Dist - Satara.

Blank Titration

Back Titration

$$CBR = 22 m$$

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount of soil sample in gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K₂CrO₇ solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K₂CrO₇ solution (sample reading)

 $0.003 = 1 \text{ ml of } 1 \text{ N } \text{K}_2\text{CrO}_7 = 3 \text{ mg} = 0.003 \text{ g of C}$

y of organic carbon in soil = $\frac{(x-y)xNx0.003}{\text{Amount of soil sample in gm}} \times 100$



Conclusion - In this soil cantain 0.45% carbon.

Department of Chemistry

Aim - Determination of organic carbon from Soil

Name of Students- Pisal Ankita Prakash

Address - At Post - Karawadi, Tal- Karad, Dis - satara

% of Organic Carbon in Soil is : 0 45 1/2

Date - 23/1/2023

Limit:

Low : < 0.5 %

Medium : 0.5 - 0.75 %

High : > 0.75 %

CHEMISTRY OF

Head Of Department

Department of Chemistry

Aim - Determination of organic carbon from Soil

Date: 23-1-2023

Name of Students- Jodhav Hilam Ganes h

Address - AIP Sheee thordhould ral-kneed Dist-saltaed

Blank Titration	Back Titration		
1. 36 ml	1. 26 ml		
2. 34 ml	2. 28 ml		
3.35 ml	3. 30 ml		
CBR = 35 m1	CBR = 28 ml		

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount of soil sample in gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K₂CrO₇ solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K₂CrO₇ solution (sample reading)

 $0.003 = 1 \text{ ml of } 1 \text{ N } \text{K}_2\text{CrO}_7 = 3 \text{ mg} = 0.003 \text{ g of C}$

% of organic carbon in soil =
$$(2x-y) \times N \times 0.03$$

$$= (35-28) \times 0.5 \times 0.003 \times 100$$

$$= 1.05 \%$$



Department of Chemistry

23-1-2023

Aim - Determination of organic carbon from Soil

Name of Students- Jadhav Nilam Ganesh

Address - Alpsheee thosalmala Tal-Kasad Dist-satasa

% of Organic Carbon in Soil is : 1.05 1.

Limit:

Low : < 0.5 %

Medium : 0.5 - 0.75 %

High : > 0.75 %

Chavan College CHEMISTRY CHEMISTRY S

Head Of Department

Department of Chemistry

Aim - Determination of organic carbon from Soil

Date: 23-01-2023

Name of Students- Sabale Vishakha Vishwas

Address - ATP-Maldan Tal-padan, Dist-Sadara.

Blank Titration		Back T	itration
1. 27 m	1.	20	ml
2. 26 m	2.	21	ml
3. 27 m	3.	21	ml
CBR = 27 m	CBR =	21	ml

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount of soil sample in gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K₂CrO₇ solution (Blank reading)

 $Y = Volume of 0.5 N FAS required for reducing the excess of 1 N <math>K_2CrO_7$ solution (sample reading)

 $0.003 = 1 \text{ ml of } 1 \text{ N } \text{K}_2\text{CrO}_7 = 3 \text{ mg} = 0.003 \text{ g of } \text{C}$

% of organic Carbon in soil =
$$\frac{(x-Y) \times N \times 0.003}{A \text{mount of soil sample in gm}} \times 100$$

$$= \frac{(27-21) \times 0.5 \times 0.003}{1} \times 100$$

$$= 0.9 \%$$





Department of Chemistry

Aim - Determination of organic carbon from Soil

Name of Students- Sabale Vishakha Vishwas

Address - AT/P-Maldan , Tal-Patan, Dist-Satara.

% of Organic Carbon in Soil is: 0.9 %

Limit:

Low : < 0.5 %

Medium : 0.5 - 0.75 %

High : > 0.75 %

Head Of Department

Department of Chemistry

Aim - Determination of organic carbon from Soil

Name of Students- Patil Samoudhi Sachin

Address - At Past gudhe, tal: Patan Dist: Satara.

Date: 23/01/2023

Blank Titration

1. 26 ml

2. 26 ml

3. 27 ml

CBR = 26 ml.

Back Titration

1. 23 ml

2. 23 ml

3. 22 m1

CBR = 23 ml

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount of soil sample in gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K₂CrO₇ solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K_2CrO_7 solution (sample reading)

 $0.003 = 1 \text{ ml of } 1 \text{ N } \text{K}_2\text{CrO}_7 = 3 \text{ mg} = 0.003 \text{ g of } \text{C}$

CHEMOTRY OF

Department of Chemistry

Aim - Determination of organic carbon from Soil

Date = 23/01/2023

Name of Students-Patil Samouddhi Sachin.

Address - At Post gudhe, tal! Patan, Dist: Satara.

% of Organic Carbon in Soil is : 0.45 1

Limit:

: < 0.5 % Low

Medium : 0.5 - 0.75 %

High : > 0.75 %

Head Of Department

Department of Chemistry

Aim - Determination of organic carbon from Soil

Name of Students- Jadhau Pratiksha Ramchandra

Address-Alpshere Tal-Karad, Dist-Satara

Date: 23/1/2023

Blank Titration

1.34 ml

2. 33 mi

3. 3 6 m 1

CBR = 34.33 ml

Back Titration

1. 25 m)

2.27 ml

3.29 ml

CBR = 27 ml

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount of soil sample in gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K₂CrO₇ solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K₂CrO₇ solution (sample reading)

 $0.003 = 1 \text{ ml of } 1 \text{ N } \text{K}_2\text{CrO}_7 = 3 \text{ mg} = 0.003 \text{ g of } \text{C}$

% of organic Curbon in Soil = Cx-4) xNx0.003

Amount of soil sampleing m

 $= \frac{(84.83) - (27) \times 0.5 \times 0.003}{1} \times 100$

= 1.09%



23/1/2023

Department of Chemistry

Aim - Determination of organic carbon from Soil

Name of Students-Jadhav Ratiksha Ramchandra Address - Alpshere Tal-Karad, Dist - Satara

% of Organic Carbon in Soil is : 109%

Limit:

Low : < 0.5 %

Medium : 0.5 - 0.75 %

High : > 0.75 %



Head Of Department

Department of Chemistry
Yashwantrao Chi. The of

Sciende, No. --

Department of Chemistry

Aim - Determination of organic carbon from Soil

Name of Students- Dhanashri Sanjay Ghadage

Address-At. Targaon Tal-Koregaon DiOt. Schara

Date: 23-01-2023

Blank Titration

Back Titration

% of Organic Carbon in Soil = $\frac{(X-Y)*N*0.003}{Amount of soil sample in gm} * 100$

X= Volume of 0.5 N FAS required for reducing 10ml K₂CrO₇ solution (Blank reading)

Y = Volume of 0.5 N FAS required for reducing the excess of 1 N K₂CrO₇ solution (sample reading)

 $0.003 = 1 \text{ ml of } 1 \text{ N } K_2CrO_7 = 3 \text{ mg } = 0.003 \text{ g of } C$

$$\frac{(23-15)0.5\times0.003}{1}\times100$$

Conclusion - This soil contain 1.2% carbon



Department of Chemistry

Aim - Determination of organic carbon from Soil

Name of Students- Dhanashri sanjay Ghadage

Address - At. Targaon tal-Koregaon Dist. Satara

% of Organic Carbon in Soil is : 1. 2 1/.

Limit:

Low : < 0.5 %

Medium : 0.5 - 0.75 %

High : > 0.75 %

avan Co

Head Of Department