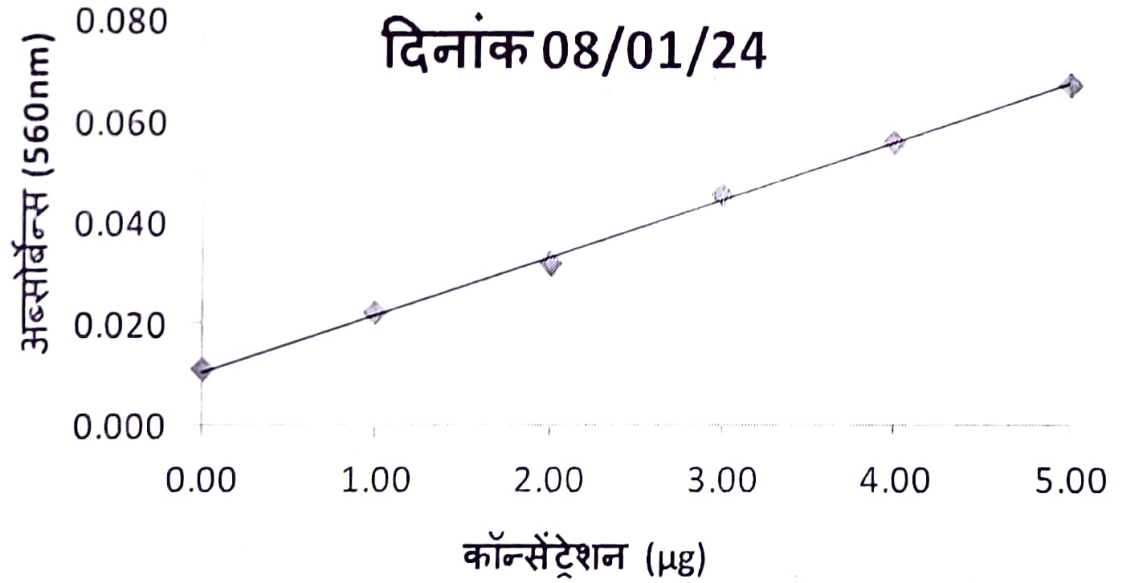


| कॉन्सेंट्रेशन (μg) | अब्सोर्बेन्स (560 nm) |
|---------------------------------|-----------------------|
| 0.00 | 0.011 |
| 1.00 | 0.022 |
| 2.00 | 0.032 |
| 3.00 | 0.045 |
| 4.00 | 0.056 |
| 5.00 | 0.067 |
| | |
| स्लोप | 0.0113 |
| इंटरसेप्ट | 0.0106 |
| कोरिलेशन | 0.9996 |

SO₂ की स्टैंडर्ड कैलिब्रेशन कर्व

दिनांक 08/01/24



श्री इंद्रनील नाथ द्वारा तैयार किया गया

Job Card No. - RDKL/2324/APP/J00246

Requisition No. - RDKL/APP/2324/SR00097

Parameters - SO₂ (Amb.)

Total No. of Samples - 02

Date of Allocation - 24.01.24

Date of Sample Analysis - 01.02.24

Due Date of Result Submission - 02.02.24

Name of the Supervisor - Md. A. Rafique

Test Method - IS 5182 (Part-2):2001

| Sl. No. | Sample Code | Total Vol _m of Sample (ml) | Vol _m of Sample Analysed (ml) | Vol _m of Air (L) | Abs. at 560 nm | Concn (μg/m ³) |
|---------|-----------------------------|---------------------------------------|--|-----------------------------|----------------|----------------------------|
| 01. | Blank | - | 10 ml absorbing | - | 0.011 | - |
| 02. | 2324/RDKL/APP/GS2/L00409 | 30 | 10 | 210 | 0.013 | 3 |
| 03. | " /L00410 | 30 | 10 | 194 | 0.013 | 3 |
| 04. | Std. SO ₂ (1 μg) | - | 10 | - | 0.022 | - |

$$\text{Calculation: SO}_2 \text{ (}\mu\text{g/m}^3\text{)} = \frac{\text{Abs} - \text{Int}}{\text{Slope}} \times \frac{\text{Total Vol}_m \text{ of Sample (ml)} \times 1000}{(\text{Vol}_m \text{ of Sample Analysed (ml)}) \times (\text{Vol}_m \text{ of Air (L)})}$$

$$\text{Slope} = 0.0113$$

$$\text{Intercept} = 0.0106$$

Standard Calibration Curve: Refer to Pg. No. - 23

Indranil Nath
01.02.24

01.02.24