Date: 2025-02-04

Time: 17:40:36.443060

Time Taken: 11 seconds

# Bradford Assay

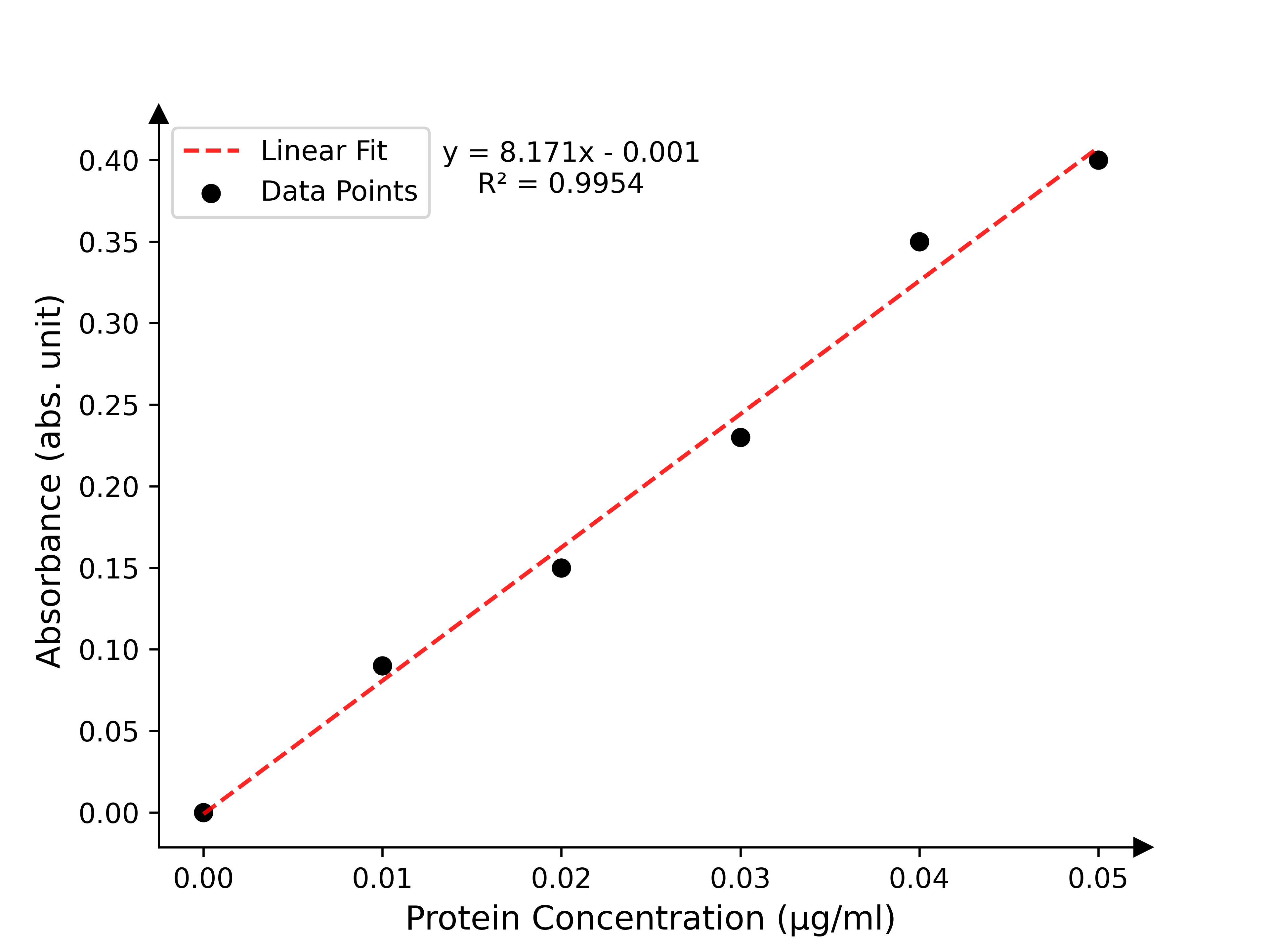
**Normalised Equation**

To normalise for protein concentration after scaling up to 1000 μl:

xi = value on the x-axis at index [i]

(in simple words, if i = 1, first value of ‘x’ is what we are looking at)

|  |  |  |
| --- | --- | --- |
| protein intial [init\_x]  (initial conc. = 2μg/μl) | protein normalised conc  (x = (2μg/μl . [init\_x] μl)/1000μl) | absorbance |
| 0.0 | 0.0 | 0.0 |
| 5.0 | 0.01 | 0.09 |
| 10.0 | 0.02 | 0.15 |
| 15.0 | 0.03 | 0.23 |
| 20.0 | 0.04 | 0.35 |
| 25.0 | 0.05 | 0.4 |

Bradford Assay Curve

**Obtained Linear Fit Equation**

y = 8.1714x + -0.001   
 R2 = 0.9954

**Calculated concentrations**

|  |  |  |
| --- | --- | --- |
| Sample No. | Absorbance | Calculated conc. (μg/μl) |
| 1.0 | 0.1 | 0.309 |
| 2.0 | 0.1 | 0.309 |
| 3.0 | 0.1 | 0.309 |
| 4.0 | 0.01 | 0.034 |
| 5.0 | 0.01 | 0.034 |
| 6.0 | 0.1 | 0.309 |
| 7.0 | 0.01 | 0.034 |
| 8.0 | 0.1 | 0.309 |
| 9.0 | 0.3 | 0.921 |

Bradford Assay with Unknown(s)