**Lab sheet (6)**

**Spectral Characterization of DNA**

**-Establish the wave length that represent the maximum absorbance for DNA.**

**-Find out the effect of temperature on the absorbance of DNA:[hyperchromic ]**

1- Read the absorbance of the DNA solution at the following wave lengths:

|  |  |  |
| --- | --- | --- |
| Absorbance of heated DNA | Absorbance of isolated DNA | Wave length |
|  |  | 240 |
|  |  | 245 |
|  |  | 250 |
|  |  | 255 |
|  |  | 260 |
|  |  | 265 |
|  |  | 270 |
|  |  | 275 |
|  |  | 280 |

(240, 245, 250, 255, 260, 265, 270, 275, 280) , using distilled water as a blank

2- Then put the DNA solution in boiling water bath for 15 min

•Immediately measure the absorbance at the following wave lengths:

(240, 245, 250, 255, 260, 265, 270, 275, 280)

3- Plot the absorption spectra of the native DNA solution and the denatured DNA against wave lengths.

Write your comment regarding the two graphs and determine the wavelength represent the maximum absorbance in the discussion.