**Lab sheet #8**

**-DNA-**

**-Objective:**

1. To determine the wave length that represent the maximum absorbance for DNA.
2. To establish the effect of temperature on the absorbance of DNA or [hyperchromic effect].

**-Method:**

**1- The effect of temperature on the absorbance of DNA [hyperchromic ] :**

1. Measure the absorbance at the following wavelengths: (240,245,250,255,260,265,270,275 and 280 nm). Using distal water as a blank.
2. Transfer the solution to test tube and cover it.
3. Put the tube in boiling water bath for 15 min.
4. Immediately measure the absorbance at same wave lengths.
5. Plot the absorption spectra of the native DNA solution and the denatured DNA against wavelengths.

**-Results:**

|  |  |  |
| --- | --- | --- |
| **Wave length (nm)** | **Absorbance of isolated (native) DNA**  **-Before heating-** | **Absorbance of heated (denatured) DNA** |
| **240** |  |  |
| **245** |  |  |
| **250** |  |  |
| **255** |  |  |
| **260** |  |  |
| **265** |  |  |
| **270** |  |  |
| **275** |  |  |
| **280** |  |  |
| **285** |  |  |
| **Conclusion:** ………………………………………………………………………………............ | | |