**Lab#2**

**BCH 471**

**Determination of Aspartate Aminotransferase (AST) in serum**

**Method: (Macro Method)**

Pipette into clean and dry test tubes (Blank and Test):

|  |  |  |
| --- | --- | --- |
| **Test** | **Blank** |  |
| 0 ml | 3.0 ml | d.H2O |
| 3.0 ml | 0 ml | Reconstituted reagent |
| Pre-warm to 37◦C, then add: | | |
| 0.2 ml | 0 ml | Sample |
| - Mix and incubate at 37 oc for 1 minute and read the absorbance at 340 nm against distilled water (A1).  - Re-incubate at 37 oc and after exactly 5 min. read the absorbance (A2). | | |

**Results**

|  |  |  |
| --- | --- | --- |
| **Time** | **Absorbance 340nm** | |
| 1 min | A1 |  |
| 5 min | A2 |  |

**Calculations:**

**(A1 –A2) X 514 = AST ACTIVITY (U/L)**

* Normal range:

For Men: up to 37 U/L

For women: up to 31 U/L