**Lab 7: Determination of amylase in serum.**  
**Determination of amylase :**

**Method :**

|  |  |  |
| --- | --- | --- |
|  | **Sample 1** | **Sample 2** |
| Substrate amylase | 1 ml or 1000 µl | 1 ml or 1000 µl |
| *Pre-warm to 37ᵒC for 5 min. then add* | | |
| Sample | 0.025 ml or 25 µl | 0.025 ml or 25 µl |
| Mix and incubate at 37ᵒC for 90 second and read the absorbance at 405 nm **against distilled water**. Take the absorbance every 30 second for the next 2 min. | | |

**Calculation:**

**Serum amylase = ∆A/min X 4824**

**∆A/min= ( ∆A1+∆A2) ÷2**

**∆A1 = ( A 60 min - A30 min)+(A30 min -A0 min)**

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**Serum amylase in sample 1 =** .................................................................................................................................................................................................................................................................................................................................................................................................................................................

**Serum amylase in sample 2 =**

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**Normal range:**

**Serum =** 16-108 U/L