**QUANTITATIVE DETERMINATION OF ACTIVATED PARTIAL THROMBOPLASTIN TEST (APTT)**

**IVD**

**STORAGE AND STABILITY**

All the reagents are ready to use. R1: Stable for 1 month at 2-8°C after opening.

**SAMPLES**

Plasma from venous puncture diluted 1:10 in trisodium citrate solution 3.8%. Mixing immediately the blood with anticoagulant. Avoid foaming the specimen.

Centrifuge the sample at 2500 x g for 15 min and transfer the plasma into a siliconized glass or plastic containers.

**PROCEDURE**

The reagent can be used by manual method, mechanical, photometric or other means of clot detection. In case to be used in BIOBAS1000 analyzer, follow the analyzer’s instructions.

**MANUAL METHOD**

1. Incubate at 37°C the reagents and the sample.
2. Mix thoroughly the reagents.
3. Pipette into a clean and dry tube:

   - Citrated plasma (µL) 100
   - R1 (µL) 100

4. Mix and incubate exactly for 5 min. at 37°C (activation time).

5. Pipette:

   - R2 (µL) 100

6. Mix thoroughly.
7. On addition of R2 start stopwatch or timer on the coagulation analyzer and determine the coagulation time.

**CALCULATIONS**

It is possible to report the results as seconds or as APTT ratio, dividing the results of the sample (sec) by the results of plasma Control (sec).

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\text{APTT ratio} = \frac{\text{APTT of the patient in seconds}}{\text{APTT of normal plasma (pool %) in seconds}}
\]

**QUALITY CONTROL**

Control sera are recommended to monitor the performance of assay procedures:

- CONTROL NORMAL
- CONTROL PATHOLOGIC

If control values are found outside the defined range, check the instrument, reagents and technique for problems. Each laboratory should establish its own Quality Control scheme and corrective actions if controls do not meet the acceptable tolerances.

**REFERENCE VALUES**

An exhaustive study has been run with 250 samples of healthy people, and as a result it has been established the following reference values:

- APTT (in seconds) 24 - 36 sec.

These values are for orientation purpose; each laboratory should establish its own reference range.

**PERFORMANCE CHARACTERISTICS**

**Heparin Sensitivity:**

Adequate sensitivity should demonstrate < 30-40% factor activity.

**Factor Sensitivity:**

These values should only be used as guidelines. Each laboratory should establish his own sensitivity to individual factors.

**INTERFERENCEs**

Do not use sodium oxalate, EDTA or heparin as anticoagulant.

Oral contraceptives, estrogens or pregnancy interfere in the assay.

A list of drugs and other interfering substances with the determination has been reported.

**NOTES**

1. All labware must be clean and free of trace amounts of detergents.
2. Always follow instrument manufacturer’s instructions; the results must be validated by the test laboratory.

**BIBLIOGRAPHY**


**PACKAGING**

Ref: 1709201

- R1: 5 x 4 mL
- R2: 2 x 4 mL