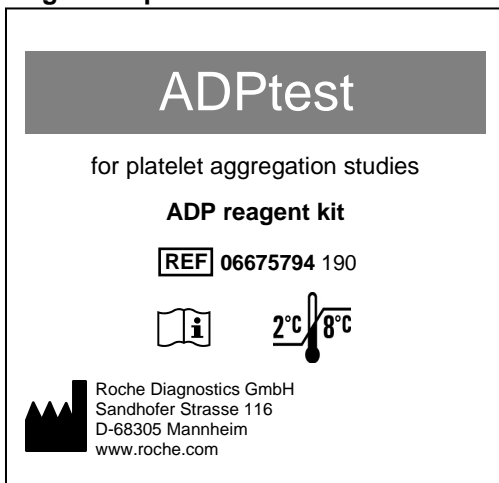


For research use only. Not for use in diagnostic procedures.



Product description

The ADPtest reagent is a lyophilized preparation of adenosine-5'-diphosphate (ADP), stock concentration 0.2 mM.

Test principle

When added to a platelet sample, ADP triggers platelet activation via platelet's ADP receptors. Exposure to exogenous ADP will cause normal platelets to release endogenous ADP from their granules and result in irreversible aggregation.

Materials provided

REF 06675794 190: 3 vials for 1.0 mL. Lyophilized reagent containing adenosine-5'-diphosphate: 0.2 mM.

Materials required (but not provided)

1. Platelet aggregometer
2. Purified water (distilled or deionized)
3. Aggregometer test cells with stir bars
4. Micropipettes – 0.5 µL to 100 µL required for reagents
5. Pipettes – 100 µL to 1 mL required for blood samples, saline or NaCl/CaCl₂ solution and purified water
6. Physiological saline (NaCl 0.9 %) for irrigation, or or NaCl/CaCl₂ solution (REF 06675972 190), for the dilution of whole blood sample

Instrumentation

The ADPtest reagent will perform as described when used on the Multiplate[®] Analyzer. Follow the manufacturer's instructions.

Precautions and warnings

The ADPtest reagent is for research use only. Not for use in diagnostic procedures. Not for injection or ingestion.

Exercise the normal precautions required for handling all laboratory material.

Disposal of all waste material should be in accordance with local guidelines.

Avoid foam formation in all reagents and sample types.

Reagent preparation

Carefully reconstitute each vial of ADPtest reagent with 1.0 mL of high purity (distilled or deionized) water. Gently swirl and allow vial to stand closed for 10 min at 18-25 °C. Swirl the vial carefully to produce a homogeneous solution before use – do not shake! Avoid the formation of foam.

The solution should be clear and colorless.

Note: Due to risk minimization procedures the vacuum in the vials was replaced by an inert gas.

To achieve maximum stability after reconstitution, pipette ≥ 100 µL aliquots of the reagent into micro test tubes for daily use.

Storage and stability

Store at 2-8 °C.

The lyophilized reagents are stable up to the stated expiration date.

For optimal handling, reconstituted reagent may be aliquoted and the aliquots stored frozen at ≤(-25) ≥(-15)°C. If reconstituted reagent is not aliquoted into micro test tubes, the original vial should be stored in an upright position. Reconstituted vials should remain tightly closed when not in use.

Stability of the reconstituted reagent:	
at 18-25 °C	24 hours
at 2-8 °C	7 days
at ≤(-25) ≥(-15)°C	4 weeks
after one time thawing at 18-25 °C	24 hours

Protect reagent from exposure to light, air and elevated temperature ranges.

Sample collection

Blood collection should be performed with caution to avoid prolonged venous stasis and using a large-bore needle during draw. Avoid foam formation in the blood collection tube. Gently invert the collection tube 4 to 5 times to ensure complete mixing of the content. Do not freeze or refrigerate samples. Do not preheat the blood before analysis. Collect samples into sterile evacuated tubes with non-wettable lining containing 1/10 volume of 3.2 % buffered sodium citrate. Avoid foam formation in the blood collection tube. Always ensure citrated blood collection tubes are filled to the indicated fill volume, in order to avoid excessive citrate levels.

Alternatively, standard lithium-heparin tubes or commercial hirudin blood collection tubes (REF 06675751 001) may be used. The anticoagulant used for blood sample collection significantly affects the results of the test. The blood collection system must be standardised at each centre. It is only possible to compare the results of an individual sample when the same sample anticoagulant (i.e. citrate, lithium-heparin or hirudin) is employed.

Test procedure

Refer to the appropriate operator's manual for analyzer-specific assay instructions.

Test procedure for citrated blood:	
NaCl/CaCl ₂ solution (prewarmed to 37 °C)	300 µL
Sample (18-25 °C)	300 µL
Incubation	180 seconds
Reconstituted ADPtest reagent	20 µL
Measuring time	6 minutes

Test procedure for lithium-heparin-anticoagulated or hirudin-anticoagulated blood:	
Saline solution, 0.9 % (prewarmed to 37 °C)	300 µL
Sample (18-25 °C)	300 µL
Incubation	180 seconds
Reconstituted ADPtest reagent	20 µL
Measuring time	6 minutes

Final concentration: 6.5 µM ADP.

Temperature conditions and incubation times must be precisely observed.

Note: It is important that the tip of the micropipette is immersed in the sample when the reagent is injected.

When using the Multiplate[®] electronic pipette in auto mode follow the test instructions displayed by the Multiplate[®] software.

Quality Control

Laboratories should follow generally accepted quality control practices when proficiency testing is not available. It is good laboratory practice to run a drug-free normal control whenever reagents are reconstituted or thawed.

Limitations - interferences

Samples should be analyzed within the period of 0.5 to 3 hours after blood collection.

The platelet count in the test sample must be above 100,000 when testing in whole blood.

The saline (NaCl 0.9%) must not contain any additives such as methyl ester. This can cause false-positive results.

It is important to pay close attention to temperatures and incubation times. The use of non-preheated saline diluent solution or the introduction of shorter incubation times may skew results.

Many drugs potentially interfere with platelet function.

Manufacturer

Roche Diagnostics GmbH
Sandhofer Strasse 116
D-68305 Mannheim, Germany
www.roche.com

Distributor

DiaPharma Group, Inc.
8948 Beckett Road
West Chester, OH 45069-2939
USA
www.diapharma.com