

AN ISO 13485 REGISTERED COMPANY

ARACHIDONIC ACID REAGENT

Sodium Arachidonate

INSTRUCTIONS FOR USE



REF 101297





ENGLISH - EN

PRODUCT DESCRIPTION

Arachidonic Acid Reagent is a lyophilized preparation of the Sodium Salt of Arachidonic Acid. It is an essential fatty acid present in the granules of platelets and on the platelet membrane. It is processed in multiple steps and converted to Thromboxane A₂ (TXA₂). Arachidonic Acid Reagent induces platelet activation and aggregation.

Arachidonic Acid Reagent has been optimized for use with Light Transmission Aggregometers. It may also be used with other turbidometric or impedance analyzers, and flow cytometers.

INTENDED PURPOSE

Arachidonic Acid Reagent (Sodium Arachidonate) is for routine use in demonstrating thromboxane A, activation response in Platelet Rich Plasma (PRP) test samples.

DETECTION / MEASUREMENT

Arachidonic Acid Reagent is used, in conjunction with other diluents and control samples, to measure changes of the light transmission in a Platelet Rich Plasma (PRP) test sample.

PRODUCT FUNCTION

Arachidonic Acid Reagent provides insight into different aspects of platelet function / quality. This Reagent aids in accessing various acquired and inherited platelet disorders or the efficacy of anti-platelet therapies.

SPECIFIC INFORMATION PROVIDED

Arachidonic Acid Reagent is not intended for the detection of a specific disorder, condition, or risk factor.

Arachidonic Acid Reagent initiates platelet activation and aggregation through the arachidonic acid pathway. Upon binding to platelet surface receptors, arachidonic acid undergoes enzymatic conversion to Thromboxane ${\rm A_2}$ (TX ${\rm A_2}$), facilitating intracellular signaling cascades. This prompts rapid changes in platelet shape and calcium ion release, crucial for stable aggregation. Observing platelet aggregation in response to Arachidonic Acid Reagent allows clinicians to assess and evaluate platelet function / quality, abnormalities, and anti-platelet therapies. Arachidonic Acid Reagent's induction of secondary mediators like Thromboxane A2 (TX A2) amplifies platelet activation.

AUTOMATION

Arachidonic Acid Reagent is intended for use in semi-automated and automated Light Transmission Platelet Aggregometers. This Reagent may also be used with other turbidometric or impedance analyzers, and flow cytometers.

QUALITY / QUANTITY

There are no primary standards for the Arachidonic Acid Reagent. The responses to this reagent is concentration dependent. A known normal donor should be tested with each new lot of Arachidonic Acid Reagent. Standards organizations classify Arachidonic Acid induced platelet aggregation as semi-quantitative or semi-qualitative.

Arachidonic Acid Reagent comes packaged as 3 x 0.5 mL vials. The working concentration of Arachidonic Acid is 5 mg / mL.

SPECIMEN TYPE

The test specimen is prepared from sodium citrate anti-coagulated whole blood. The test sample is Platelet Rich Plasma (PRP). The test blank is Platelet Poor Plasma

Arachidonic Acid Reagent may be used with human or animal Platelet Rich Plasma (PRP) for routine platelet aggregation tests. Results are based on the concentration, extent, and rate of aggregation compared to a Platelet Poor Plasma (PPP) blank.

TESTING POPULATION

- Human: The prevalence of platelet disorders is global and may vary by race, ethnicity, blood type, and other factors. The incidence is variable
- Anti-Platelet Drugs: The prevalence of abnormal Arachidonic Acid Reagent aggregation, contingent on estimated Aspirin usage, reaches up to one third of the population. Both Clopidogrel and the combination of Clopidogrel with Aspirin can influence Arachidonic Acid-induced platelet aggregation. The incidence is variable
- Inherited Platelet Disorders: The prevalence and incidence are variable. There are 60 types of inherited platelet disorders that affect approximately 0.3% of the population. Certain inherited platelet defects, such as Glanzmann's Thrombasthenia and Storage Pool Disease, show no response to Arachidonic Acid Reagent.

IN VITRO DIAGNOSTIC

Arachidonic Acid Reagent is an in vitro diagnostic reagent intended for Professional Laboratory Use Only. This Reagent is not intended for injection or ingestion.

· Animal: The prevalence and incidence are species dependent.

INTENDED USER

Arachidonic Acid Reagent is intended for Professional Laboratory Use by qualified

TEST PRINCIPLE

When introduced to a stirred, 37°C Platelet Rich Plasma (PRP) test sample, exogenous Reagents such as ADP, Arachidonic Acid, Collagen, Epinephrine, and Ristocetin stimulate platelets, prompting them to undergo shape change and aggregate. This initial aggregation is called primary aggregation and is reversible. However, normal platelets possess the ability to release endogenous ADP from their granules, leading to a secondary, irreversible wave of aggregation. The Light Transmission Platelet Aggregometer effectively captures these changes by displaying parameters such as lag phase, shape change, and the rate and extent of aggregation over a predetermined testing period.

CALIBRATORS AND CONTROLS

There are no calibrators or controls required for Arachidonic Acid Reagent. A known donor sample should be tested with each lot of Arachidonic Acid Reagent. Responses are concentration dependent.

REAGENT LIMITATIONS

Arachidonic Acid Reagent will perform as specified when the Instructions for Use are followed. The reagents must be used prior to the expiration date printed on each vial.

REAGENTS PROVIDED



101297: 3 vials of Arachidonic Acid Reagent (0.5 mL)

REAGENTS AND MATERIALS REQUIRED BUT NOT PROVIDED

- Purified Water (Distilled, Deionized, Reagent Grade), pH 5.3 7.2 for reconstitution
- TRIS Buffered Saline (TBS) or 0.85% physiological saline for dilutions



NOTE: USING BLOOD BANK SALINE WILL CAUSE ERRONEOUS RESULTS.

MATERIALS AND ACCESSORIES

- Platelet Aggregometer (Follow the Manufacturer's Instructions for Use)
- Centrifuge
- Electronic Pipette
- Pipette Tips (2)
- Aggregometer Test Tubes (Siliconized) 2
- Aggregometer Stir Bars (Plastic Coated) (2)
 - Plastic Sample Tubes and Caps (for Dilutions) (2)



NOTE: DISPOSABLE ITEMS SUCH AS TEST TUBES, STIR BARS, SAMPLE TUBES, AND CAPS ARE FOR ONE TIME USE ONLY

STORAGE AND STABILITY



Arachidonic Acid Reagent does not require temperature protection during shipment.



Upon receipt, store Arachidonic Acid Reagent at 2 - 8° C in its' original



Reconstituted Arachidonic Acid Reagent is stable for 30 days when stored in its' tightly capped, original containers at 2 - 8° C.

STERILITY



Arachidonic Acid Reagent is not a sterile product. Be careful not to contaminate the product when pipetting the reconstituted or aliquoted reagents.

WARNINGS AND PRECAUTIONS



Wear PPE in accordance with laboratory policies and practices when handling Arachidonic Acid Reagent.



Follow standard precautions when preparing test specimens and samples.



Handle Arachidonic Acid Reagent with care to avoid contamination during use.



Avoid reagent evaporation by limiting air - liquid exchange surfaces.



To ensure optimum test results, a known donor control sample should be run consecutively, without interruption.



To preserve reagent stability, store remaining reagent in its' tightly capped, original containers.



Dispose of post-test materials in accordance with applicable regulations and laboratory policies.



NOTE TO USER: ANY SERIOUS INCIDENT THAT OCCURS IN RELATION TO THIS PRODUCT SHALL BE REPORTED TO THE MANUFACTURER AND THE COMPETENT AUTHORITY OF THE MEMBER STATE IN WHICH THE USER AND / OR PATIENT ARE ESTABLISHED.

INFECTIOUS MATERIAL STATUS

Arachidonic Acid Reagent does not contain any infectious materials. Test specimens and samples must be considered infectious and should be handled as if capable of transmitting infection. After testing, test specimens and samples must be disposed of in compliance with applicable regulations and laboratory policies.

SPECIAL FACILITIES

Arachidonic Acid Reagent does not require the use of special facilities within a laboratory environment.

PREPARATION FOR USE



NOTE: ARACHIDONIC ACID REAGENT MUST BE AT ROOM TEMPERATURE (15 – 28° C) PRIOR TO RECONSTITUTION. STORED REAGENTS MUST BE BROUGHT TO ROOM TEMPERATURE PRIOR TO USE.

RECONSTITUTION [1]

The working concentration of the reconstituted Arachidonic Acid Reagent is 5 mg / mL. All final concentrations are based on adding 25 µL of Arachidonic Acid Reagent to a 225 µL Platelet Rich Plasma (PRP) test sample.

- Reconstitute Arachidonic Acid Reagent with 0.5 mL of Purified Water.
- Invert gently to mix.



NOTE: ARACHIDONIC ACID AND EPINEPHRINE REAGENTS MAY APPEAR CLOUDY BUT WILL BECOME CLEAR TO PALE YELLOW WITHIN A FEW MINUTES.

Reconstituted Arachidonic Acid Reagent should be kept capped prior to use.

PATIENT PREPARATION

Patients should refrain from taking aspirin or using aspirin-containing medications and products, as well as other medications, supplements, or energy drinks known to affect platelet function for 7 – 10 days prior to specimen collection. Ingestion of fatty foods, dairy products, and smoking should be avoided for 12 hours before specimen collection.



NOTE: CONSULTATION WITH A PHYSICIAN IS REQUIRED PRIOR TO MAKING ANY MEDICATION CHANGES.

SPECIMEN COLLECTION

The specimen should be collected with care to avoid stasis, hemolysis, contamination by tissue fluid and exposure to glass. Specimens must be kept at room temperature. Release the tourniquet as soon as blood begins to flow into the collection device.



PRACTICE STANDARD PRECAUTIONS THROUGHOUT THE SPECIMEN COLLECTION, SAMPLE PREPARATION, AND ANALYTICAL PROCESSES. DISPOSE OF SHARPS AND BIOHAZARDOUS WASTE IN ACCORDANCE WITH APPLICABLE REGULATIONS AND LABORATORY POLICIES

Evacuated Specimen Collection Technique

- Use a 21g or 23g winged needle collection set for specimen collection
- Draw blood into plastic evacuated specimen collection tubes containing 3.2% (0.11 M) sodium citrate anti-coagulant
- Gently mix the specimen collection tube 4 5 times by inversion
- Write collection time on the specimen label
- Maintain specimen collection tubes at room temperature
- Remix specimen collection tubes prior to centrifugation

- Use a 21g or 23g winged needle collection set for the venipuncture Draw 9.0 mL of blood into a plastic syringe, avoiding excess suction
- Clamp the winged needle tubing and disconnect the syringe
- Immediately and gently dispense the blood specimen into a plastic (polypropylene) tube containing 1.0 mL of 0.11 M sodium citrate anti-coagulant. The blood to anticoagulant ratio is 9 parts blood to 1 part anti-coagulant
- Cap the plastic tube
- Gently mix the specimen collection tube 4 5 times by inversion
- Write collection time on the specimen label
- Maintain specimen collection tubes at room temperature
- Remix specimen collection tubes prior to centrifugation



NOTE: WHEN THE PATIENT'S HEMATOCRIT IS LESS THAN 30% OR GREATER THAN 55%, THE BLOOD TO ANTI-COAGULANT RATIO MUST BE ADJUSTED. BLUE TOP EVACUATED SPECIMEN COLLECTION TUBES MUST CONTAIN 3.2% (0.11 M) SODIUM CITRATE ANTICOAGULANT. WHICH IS THE RECOMMENDED CONCENTRATION FOR PLATELET FUNCTION STUDIES.

SAMPLE PREPARATION II



Platelet Rich Plasma (PRP)

- · Centrifuge the anti-coagulated blood at 150 x g for 10 minutes at room temperature
- Examine the plasma layer for red cells
- If red cells are present, re-centrifuge for an additional 5 minutes
- Use a Pipette to transfer the PRP to a plastic container labeled PRP
- Remove the PRP from a point just below the middle of the PRP volume for consistent platelet count (THE TOP OF THE VOLUME HAS A LOWER PLATELET COUNT AND THE BOTTOM IS MORE CONCENTRATED)
- Cap the container
- Allow the container to stand at room temperature

Platelet Poor Plasma (PPP)

- Centrifuge the remaining PRP blood specimen at 2500 x g for 20 minutes
- Use a Pipette to transfer the PPP to a plastic container labeled PPP
- Cap the container
- Allow the container to stand at room temperature

ASSAY PROCEDURE | i



Routine Aggregation Procedure



NOTE: THIS IS A GENERAL PROCEDURE. FOLLOW THE INSTRUCTIONS FOR USE PROVIDED BY THE MANUFACTURER OF THE AGGREGOMETER IN USE.

Prepare a Blank for Each Patient



NOTE: EACH PATIENT MUST HAVE THEIR OWN BLANK. ONE PATIENT'S BLANK CANNOT BE USED FOR ANY OTHER PATIENT. THE PATIENT'S BLANK MUST BE PREPARED FROM THE PATIENT'S PLATELET POOR PLASMA (PPP) SPECIMEN. IF THE SAME PATIENT IS BEING TESTED ON MULTIPLE TEST WELLS, THE SAME PATIENT'S BLANK MAY BE USED FOR THOSE TEST WELLS.

- Label a test tube with the letter "B", test well #, and patient ID to identify the Blank
- Pipette 250 µL of Platelet Poor Plasma (PPP) into the test tube (DO NOT ADD A STIR BAR)
- Place Blank aside for later use
- · Repeat the steps above for each patient

Prepare Samples

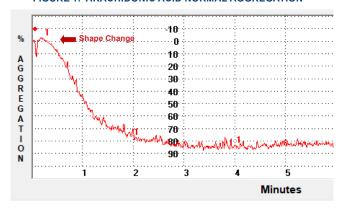
- · Label one to eight new test tubes with each patient ID and test well #
- Place the labeled test tubes into the correct well # 1 8 of the stirred sample incubation wells
- Add a stir bar to each test tube
- Pipette 225 µL of Platelet Rich Plasma (PRP) sample into each test tube in the stirred sample incubation wells (MAKE SURE THERE ARE NO BUBBLES)
- Select the on-screen timer for each stirred sample incubation well in use and the warming countdown will start
- The samples will incubate at 37° C for the pre-set time
- Set the 100% baseline (Blank)
- Place the appropriate previously prepared patient's Blank test tube into test
- Select BLANK to activate the test well
- The BLANK button will change to START
- Repeat the steps above for each test well being used for testing

Begin Testing

- · Once the countdown timer reaches 0:00, press the timer button to stop each stirred sample incubation well
- Transfer the test tube in the stirred sample incubation well # 1 to test well # 1
- Repeat the step above for each test well, making sure all test tubes remain with their corresponding well #'s during transfer



FIGURE 1: ARACHIDONIC ACID NORMAL AGGREGATION



- · Close the pipette guides
- Select START for test well # 1
- Pipette 25 µL of reagent directly into the Platelet Rich Plasma (PRP) test tube in test well # 1 (DO NOT ALLOW REAGENT TO RUN DOWN THE WALL OF THE TEST TUBE OR PERMIT PIPETTE TIP TO BREAK THE SURFACE OF THE SAMPLE)
- Select INJECT for test well # 1
- · Repeat the steps above for each test well being used for testing
- The test will now run for the pre-set time (OTHER MANUFACTURER'S TEST PROCEDURES MAY SPECIFY DIFFERENT TIMES OR VOLUMES)



NOTE: USE A KNOWN DONOR AS A CONTROL SAMPLE. EACH LABORATORY SHOULD ESTABLISH AND VALIDATE ITS OWN TEST PROTOCOL AND VERIFY THE RESULTING PERFORMANCE OF ITS TEST SYSTEM (REAGENTS, INSTRUMENT, AND TEST PROTOCOL).

QUALITY CONTROL

For platelet aggregation studies, a known donor should be tested in the same manner as the patient to ensure test system performance and consistency. A new control should be included with each test series, and preferably with each new reagent lot or after instrument maintenance. Each laboratory must define its acceptable ranges for its patient population and verify the expected performance of the test system.

RESULTS

Typical aggregation patterns induced by Arachidonic Acid Reagent are illustrated in Figures 1 and 2. These patterns provide a comprehensive view of how the reagent interacts with Platelet Rich Plasma (PRP) under different conditions.

Ingestion of a single 600 mg dose of Aspirin has a significant impact on platelet aggregation, resulting in the absence of Arachidonic Acid-induced aggregation for up to 5 days, as demonstrated in Figure 1. This absence indicates that Aspirin effectively inhibits the aggregation response, which is crucial for understanding its anticoagulant properties.

Furthermore, a prolonged response time can be observed for up to 8 days following Aspirin ingestion, as depicted in Figure 2. This prolonged response time refers to the delay from the addition of Arachidonic Acid Reagent to the onset of aggregation, highlighting the extended effect of Aspirin on platelet function.

Spike marks in the figures indicate the points at which the reagent was added, providing clear reference points for the timing of reagent introduction and its effects on the aggregation process.

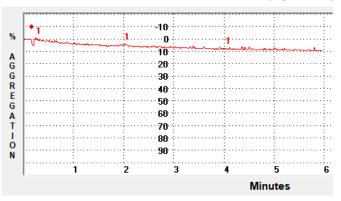
TABLE 1: ARACHIDONIC ACID RESULTS OBSERVED IN PLATELET FUNCTION DEFECTS

| DEFECT | ARACHIDONIC ACID REAGENT |
|--------------------------|--------------------------------|
| ASPIRIN-LIKE | or N |
| THROMBASTHENIA | 1 1 |
| STORAGE POOL DISEASE | 1 |
| VON WILLEBRAND SYNDROME | N |
| BERNARD-SOULIER SYNDROME | N |

= Reduced Aggregation Resulting From a Decrease or Absence of Secondary Wave

= Reduced Aggregation Resulting From a Decrease or Absence of Primary and Secondary Wave

FIGURE 2: ARACHIDONIC ACID ABNORMAL RESPONSE (Aspirin Effect)



EXPECTED VALUES

Each laboratory should establish expected ranges for each reagent at various concentrations used to induce aggregation (TABLE 2).

TABLE 2: EXPECTED RESULTS FOR PLATELET AGGREGATION RESPONSES IN NORMAL DONORS

Final Aggregation at 6 Minutes

| Parameter | Units | ARACHIDONIC ACID REAGENT |
|----------------------------------|---------|-----------------------------|
| Final Concentration | | 500.0 μg / mL |
| Primary Aggregation | % | 83 |
| Primary Slope | | 55 |
| Secondary (Biphasic) Aggregation | % | No |
| Secondary Slope | | 0 |
| Area Under The Curve | Minutes | 414 |
| Lag Phase | Seconds | < / = 20 |
| Disaggregation | % | 0 |
| Maximum Aggregation | % | ≥ 83 |
| Final Aggregation | % | 65 - 90 |



NOTE: ADJUSTING PLATELET COUNTS IS NOT RECOMMENDED

LIMITATIONS

In Light Transmission Aggregometry, the presence of red blood cells in the PRP will cause the observed aggregation to be reduced. The presence of platelets in the PPP will cause final aggregation to be increased. Spurious results may occur if the PRP platelet count is less than 75,000 platelets / cumm. PRP platelet counts can only be performed using the hemocytometer method. Compromised samples must be rejected. If the results are abnormal, the test should be repeated on another occasion. Each laboratory must establish reference ranges tailored to the population it serves, and the specific reagent concentrations used.

ANALYTICAL PERFORMANCE

Platelet aggregation, induced by commonly used reagents like Arachidonic Acid Reagent, is a non-linear test system. Responses are based on the difference between the patient's Platelet Rich Plasma (PRP) and Platelet Poor Plasma (PPP) light transmission and therefore, results are unique to that patient. Certain parameters are more prone to non-linearity than others. These include lag phase, primary slope, secondary slope, biphasic response and disaggregation. The non-linearity is caused by many factors such as the reaction chemistry and instrumentation. Platelet aggregation displays the response rate or activity and does not quantify the reactants or their concentrations.

In platelet aggregation, accuracy is a relative parameter and is dependent on the test system. The limitations of platelet aggregation make it difficult to provide typical precision or reproducibility ranges.

The variability in linearity, precision and reproducibility of results in Arachidonic Acid Reagent-based test systems is acknowledged by multiple standards organizations. The commonly accepted CV is ± 15%.

Test to Test Reproducibility: less than \pm 7.5% lnstrument to Instrument Reproducibility: less than \pm 15.0% Reagent Lot to Lot Variability: less than \pm 10.5% less than \pm 12.5% less than \pm 12.5%

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SYMBOLS

3

Bio-Hazardous



Catalog Number



Caution



CE Marked & Registered Product



Consult Instructions For Use European Union Representative





In Vitro Diagnostic Device



Manufacturer



Must Read



Non-Sterile



Single Use Only

Temperature Limitations



United Kingdom Marked & Registered Product



United Kingdom Representative

REVISION HISTORY

Document No: 101302 Revision: AA, 01/2025

- Modified Testing Instructions
- Implemented IVDR Regulatory Requirements
- Reformatted and Reconfigured to Enhance Operator Use

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