**INTRODUCTION**

- CHRONO-PAR® and CHRONO-LUME® reagents are used to confirm several platelet functions in drug-free normal platelets to demonstrate aggregation and release in drug-free normal platelets.

**PROCEDURES**

- CHRONO-PAR® and CHRONO-LUME® reagents are suitable for use in both Whole Blood and Platelet Rich Plasma.

**Normal Ranges**

- For the quantitation of ATP Release.

**Calculation of ATP Release**

- The following Normal Ranges were obtained from reagents with Windows-compatible software and following NCCLS GP2-A3 format are available on a CD-ROM (or via Email: proced@chronolog.com)

**INTERPRETATION OF RESULTS**

- The following Normal Ranges were obtained from reagents with Windows-compatible software and following NCCLS GP2-A3 format are available on a CD-ROM (or via Email: proced@chronolog.com)

**Material Required But Not Provided**

- **In-a-3-strip sample** — typcially 450 µL blood diluted with 450 µL of physiological saline 184 µL of CHRONO-LUME Reagent and 3.0 µL of CHRONO-LUME Reagent for testing with WB/PRP.

**Reagents**

- **CHRONO-LUME®**

  - **ATP Standard** 5.0 mL 2 µmole 2 nmole 5 µL 5 µL 1000 1000

**REFERENCES**

- **In a 3-strips sample — typically 450 µL blood diluted with 450 µL of physiological saline 184 µL of CHRONO-LUME Reagent and 3.0 µL of CHRONO-LUME Reagent for testing with WB/PRP.

**Material Required But Not Provided**

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### CHROMO-PAR® AND CHROMO-LUM® REAGENTS

**DEFINITIONS**

- **ADP** (adenosine diphosphate)
- **ATP** (adenosine triphosphate)

**REAGENT SUPPLIED AS PREPARATION SHELF LIFE & STORAGE RECOMMENDED VOLUMES**

<table>
<thead>
<tr>
<th>REAGENT</th>
<th>SHELF LIFE</th>
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<td>Stock Conc.</td>
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<tr>
<td>Lyophilized Reagent</td>
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<td>Diluted/Undiluted Blood</td>
<td>1 month</td>
<td>2 - 8°C</td>
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**REAGENT USE & STORAGE**

**Lyophilized Reagents**

- For 2 minutes just before running the test.

**Diluted/Undiluted Blood**

- First tap contents gently to the bottom of the vial. Break vial tip with Cap or in a 100µL aliquot to a total volume of 1mL.

**NOTE**

- The appearance of the lyophilized Reagent before and after reconstitution is suitable for use as supplied. Reconstituted Reagent should appear very similar to the lyophilized Reagent in the dark. Any particulate in the lyophilized Reagent may be removed by gentle swirling before use.

**A, R N A, R A**

- Add 5 µL of reagent to 500 µL sample for a concentration of 10 µM.

**B**

- Add 5 µL of Stock Solution to 1 mL sample for a concentration of 0.5 mM.

**C**

- Add 5 µL of Stock Solution to 1 mL sample for a concentration of 1 Unit/mL.

**P**

- Add 5 µL of Stock Solution to 1 mL sample for a concentration of 2 µg/mL.

**PR**

- Add 5 µL of Stock Solution to 1 mL sample for a concentration of 10 µM.

**STANDARDIZATION**

- Reagent Final Concentration Aspirin Effect** Von Willebrand & Storage Pool/ Glanzmann’s

**EXPECTED RESULTS**

- **ABP** (atherosclerotic blood protein) level

**AGGREGATION RESPONSE WITH SELECTED ABNORMALITIES**

**A**

- Add 5 µL of reagent to 1 mL sample for a concentration of 10 µM.

**B**

- Add 5 µL of reagent to 1 mL sample for a concentration of 2 µg/mL.

**C**

- Add 5 µL of reagent to 1 mL sample for a concentration of 0.5 mM.

**REAGENTS**

To detect Type 2B or Platelet-Type von Willebrand, Defect

- Add 10 µL of reagent to 1 mL sample for a concentration of 2 µmole Standard.

**PR**

- Add 2 µL of reagent to 1 mL sample for a concentration of 10 µM.

**A, R N A, R A**

- Add 5 µL of Stock Solution to 1 mL sample for a concentration of 2 µg/mL.

**C**

- Add 5 µL of Stock Solution to 1 mL sample for a concentration of 0.5 mM.

**B**

- Add 5 µL of Stock Solution to 1 mL sample for a concentration of 1 Unit/mL.

**STANDARDIZATION**

- **B**

- **C**

**EXPECTED RESULTS**

- **ABP** (atherosclerotic blood protein) level

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- Add 2 µL of reagent to 1 mL sample for a concentration of 2 µg/mL.

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**STANDARDIZATION**

- **B**

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