

## SUPPLEMENTAL TECHNICAL BULLETIN ST – 2006 – 07

**Title:** Sticky Platelet Test Procedure  
**Bulletin No:** ST-2006-07

This Supplemental Technical Bulletin (ST) has been developed as a laboratory aid. This ST does not alter, revise or change the information provided in the Technical Bulletin included with each product. In accordance with Good Laboratory Practice and regulatory requirements, each laboratory must develop, validate and adopt its own written procedures.

### Sticky Platelet Test Procedure

#### SIMPLIFIED INSTRUCTIONS PAP-8E

[REFER TO THE PAP-8E OPERATIONS MANUAL FOR DETAILED INSTRUCTIONS BEFORE PERFORMING THIS PROCEDURE]

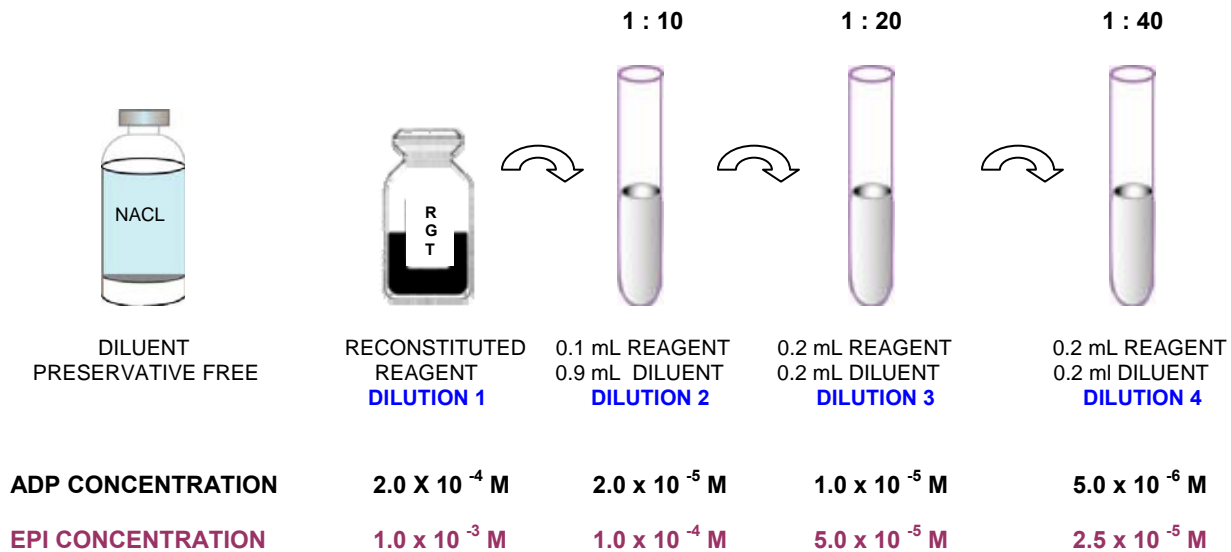
1. COLLECT SPECIMENS FROM KNOWN [NORMAL] DONOR and PATIENT
2. PREPARE PLATELET RICH PLASMA [PRP] and PLATELET POOR PLASMA [PPP]

**PRP**  
CENTRIFUGE SPECIMEN  
150 x G for 10 MIN

**PPP**  
RECENTRIFUGE SPECIMEN  
2000 x G for 20 MIN

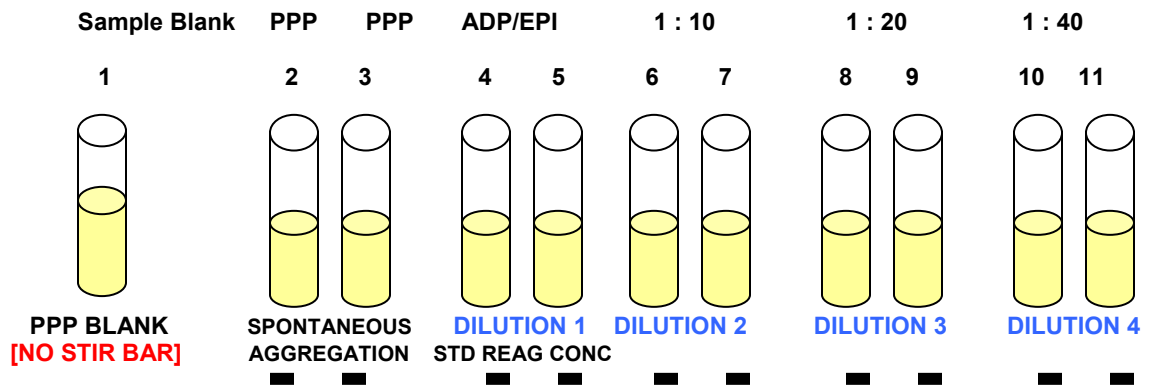
3. RECONSTITUTE ADP AND EPI (EPINEPHRINE) REAGENTS WITH 0.5mL OF PURIFIED WATER; USE ELECTRONIC PIPETTOR
4. TRANSFER PRP and PPP TO PLASTIC ALIQUOT TUBES WITH TRANSFER PIPETTE, and CAP TUBES

**5. PREPARE THREE DILUTIONS OF ADP and EPI REAGENTS; USE ONLY PRESERVATIVE FREE SALINE**



**NOTE: ADDITIONAL DILUTIONS MAY BE REQUIRED TO ATTAIN BIPHASIC CURVE OR DISAGGREGATION**

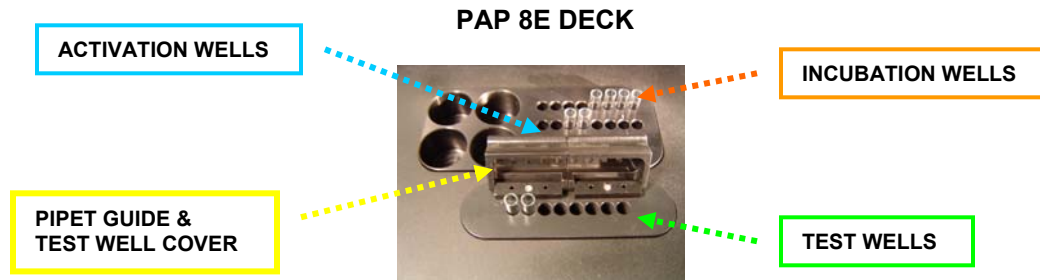
**6. SET UP 11 7.25 x 55 mm SILICONIZED TUBES FOR BOTH DONOR and PATIENT SAMPLES [FOR DUPLICATE TESTING]**



**7. PUT A DISPOSABLE STIR BAR IN TUBES 2 – 11**

**8. PIPET 250µl PPP INTO TUBE 1**

**9. PIPET 225µl PRP INTO TUBES 2 – 11**



**1:00**

**2:00**

10. PUT TUBES 2, 4, 6, 8 & 10 IN THE INCUBATION WELLS; START THE ON SCREEN TIMER
11. MOVE TUBES 2, 4, 6, 8 & 10 TO THE ACTIVATION WELLS; START ON SCREEN TIMER
12. 'BLANK' EACH CHANNEL [TEST WELL] WITH PROPER PPP TUBE
13. MOVE TUBES 2, 4, 6, 8 & 10 TO THE TEST WELLS, CLOSE PIPET GUIDES
14. FOR SPONTANEOUS AGGREGATION [TUBES 2 & 3] USE 25µl of CORRESPONDING PPP AS REAGENT; PLACE ELECTRONIC PIPET IN GUIDE AND DISPENSE PPP
15. FOR REAGENTS, FOLLOW TABLE BELOW:

TUBES	ADP REAGENT	EPI REAGENT
4 & 5	2.0 X 10 <sup>-4</sup> M [DIL 1]	1.0 x 10 <sup>-3</sup> M [DIL 1]
6 & 7	2.0 x 10 <sup>-5</sup> M [DIL 2]	1.0 x 10 <sup>-4</sup> M [DIL 2]
8 & 9	1.0 x 10 <sup>-5</sup> M [DIL 3]	5.0 x 10 <sup>-5</sup> M [DIL 3]
10 & 11	5.0 x 10 <sup>-6</sup> M [DIL 4]	2.5 x 10 <sup>-5</sup> M [DIL 4]

DISPENSE 25µl of EACH REAGENT DILUTION INTO EACH TUBE

16. STOP TEST AT THE FIRST DILUTION THAT GIVES BIPHASIC CURVE OR SHOWS DISAGGREGATION



17. REPEAT PROCESS FOR TUBES 3, 5, 7, 9 & 11
18. CHECK KNOWN DONOR RESULTS TO CONFIRM EACH IS ACCEPTABLE [NORMAL]
19. COMPARE PATIENT RESULTS TO EXPECTED RESULTS TABLE

AGONIST	EXPECTED RESULTS	TYPE I	TYPE II	TYPE III
ADP DILUTIONS	NORMAL	ABNORMAL	NORMAL	ABNORMAL
EPI DILUTIONS	NORMAL	ABNORMAL	ABNORMAL	NORMAL
SPONTANEOUS AGGREGATION	NEGATIVE	POSITIVE	VARIABLE	POSITIVE