

# Center for Disease Detection

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## Centrifugation Instruction

1



**GENTLY INVERT 5-10 TIMES  
TO MIX CLOT ACTIVATOR**

2



**CLOT FOR 30 MINUTES TO 2 HOURS  
PRIOR TO CENTRIFUGATION**

3



**CENTRIFUGE UNTIL FULL  
SEPARATION**

1. After samples have been collected, tubes must be mixed by inverting end to end 5-10 times.  
**Do not shake tubes.**
2. SST tube samples must be allowed to clot standing **completely upright** for a minimum of 30 minutes and a maximum of 2 hours prior to centrifugation.
3. Centrifuge at 1,800 Relative Centrifugal Force (RCF) for 10 minutes (sheet chart below for Revolutions Per Minute (RPM) conversion)

### **BLOOD SHOULD NOT BE SHIPPED SOONER THAN 1 HOUR AFTER BEING DRAWN**

To determine the correct setting for the RPM speed you must measure the rotor radius of your centrifuge. Tilt one tube to its highest angle and measure from the center of the centrifuge's rotor to the end of the tilted tube (e.g. the furthest end of the tube from the center of the rotor), then compare this measurement, in centimeters, to the below chart. For example: if the rotor radius is 15cm the RPM speed should be set at 3276.

Rotor Radius (cm)	4	5	6	7	8	9	10	11	12	13	14
Speed (RPM)	6344	5674	5180	4795	4486	4229	4014	3825	3662	3519	3391

Rotor Radius (cm)	15	16	17	18	19	20	21	22	23	24	25
Speed (RPM)	3276	3171	3077	2990	2910	2837	2768	2705	2645	2589	2537

**Please ensure that the centrifuge is calibrated per the manufacturer guidelines.**