

# Product Information

## VACUETTE® Serum (Sep) Clot Activator

### Troubleshooter

Problem	Cause	Solution
Haemolysis	Phlebotomy technique	After cleansing of venipuncture site, allow area to air dry. Never draw blood through a haematoma.
	Tubes were shaken	Directly after blood collection, thorough mixing of the venous blood with the SiO <sub>2</sub> must be achieved by inverting the tube 5-10 times without shaking. Vigorous mixing or shaking of the tubes may lead to haemolysis (pneumatic tube dispatch systems without brakes).
Coagulation process takes too long	Insufficient mixing of tubes.	For activation of the platelet and clotting factor coagulation process, the obtained venous blood must come into contact with the SiO <sub>2</sub> by inverting the tube 5-10 times without shaking. Store tubes in darkness and in an upright position.
	Patient blood	Patients who are on anticoagulant therapy, or those with coagulation defects will have delayed clotting.
No movement of gel after centrifugation	Too short duration of centrifugation or too low relative centrifugal force	Centrifuge the tubes at 1.800-2200g for 10-15 minutes. Please note that centrifuges need some time to accelerate the rotor to 2200g. This acceleration time should be added to the 10 minutes.
	The temperature in the centrifuge is too low	The yield of serum is best at temperatures between 20-22°C. Centrifugation at refrigerated temperatures (4°C) may result in partial or no movement of the gel. Set the temperature between 20-22°C. Please note that tubes stored under refrigerated conditions should be allowed to reach room temperature before blood collection.
Centrifugation is set to '1.800', however gel does not move	Incorrect setting of centrifuge. Centrifuge is set to '1.800' rpm rpm = rotations per minute	Set the relative centrifugal force (rcf) to '1.800'. 1.800g set in centrifuges with a 180mm rotor radius would correspond to approx. 3.000rpm. Please note that a centrifuge set to 1.800 rpm would only produce approx. 600g.
Recognizable fibrin threads in serum	Prior centrifugation the blood was not completely clotted	Wait until the clotting process is completed. Normally, the waiting time for blood to clot is 30 minutes. However, patients who are on anticoagulant therapy, or those with coagulation defects will have delayed clotting.
Falsified K, LDH results	Re-centrifugation of Serum Gel Tubes	Do not re-centrifuge Serum Gel Tubes. The debris under the barrier might contaminate the supernatant.
Low Serum yield	Not enough Blood Collected	Only 40 - 50% of the collected blood is Serum.