

**UltraClot v. Control**  
**Clotting Time Comparison for Blood with Anticoagulants**

<b>Heparin Test Model</b>		
Test #	UltraClot <sup>1</sup>	Control <sup>2</sup>
	<u>Complete Clot time/seconds</u>	
1	27	not clotted
2	30	not clotted
3	25	not clotted
4	35	not clotted
5	32	not clotted
Avg	29.8	

Notes: Measurements terminated at 15 minutes

<sup>1</sup> 7 ml rabbit blood sample with Heparin dose of 91 usp per 1 ml blood, 1 g UltraClot hemostatic agent added to sample and mixed thoroughly

<sup>2</sup> 7 ml rabbit blood sample with Heparin dose of 91 usp per 1 ml blood

<b>Coumadin (sodium warfarin) Test Model</b>		
Test #	UltraClot <sup>3</sup>	Control <sup>4</sup>
	<u>Complete Clot time/seconds</u>	
1	24	not clotted
2	21	not clotted
3	25	not clotted
4	27	not clotted
5	19	not clotted
Avg	23.2	

Notes: Measurements terminated at 15 minutes

<sup>3</sup> rabbits pretreated with 1mg/kg dose of Coumadin for 5 days, 7 ml rabbit blood sample tested, 1 g UltraClot hemostatic agent added to blood sample and mixed thoroughly

<sup>4</sup> rabbits pretreated with 1mg/kg dose of Coumadin for 5 days, 7 ml rabbit blood sample tested

**Conclusion and Discussion:**

The Control Group in the Heparin Test Model did not clot within the time limit of the experiment. As expected, Heparin inhibited clotting. UltraClot succeeded in clotting Heparinized blood in an average time of less than 30 seconds.

The Control Group in the Coumadin Test Model did not clot within the time limit of the experiment. However, when UltraClot was added, average clotting time was less than 24 seconds.

Given the results of these studies, UltraClot demonstrated its effectiveness in clotting blood quickly in the presence of Heparin or Coumadin.