## **Antithrombin Assay**

Antithrombin activity is measured by level of inhibition of Factor Xa

## Materials

- 1. Versa Max microtiter plate reader (Molecular Devices, CA)
- 2. 96-well microtiter plate
- 3. Citrated plasma samples
- 4. Normal mouse plasma (NMP)
- 5. HN/BSA
- 6. Factor Xa/heparin reagent
- 7. 1.25 mg/mL chromogenic substrate S-2765

## Procedure

- 1. Plasma samples may be diluted to 1:40 1:200 in HN/BSA
- 2. Standard curve is prepared with each plate by diluting NMP 1:20 to 1:640 in HN/BSA, analyzed simultaneously on the sample plate
- 3. Plate wells are loaded as follows:

Sample dilutions, in duplicate	40uL	<b>37°</b> ℃	3min	
Factor Xa/Heparin reagent	40uL			
Chromogenic substrate	40uL			Color development

- 4. Plate is read at 405 nm
- 5. Absorbance are converted to %NMP Antithrombin using the standard curve