



Plasma based Flow Assay for Measuring Trombin and Fibrin Generation

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Summary: A microfluidic plasma-based flow assay for measuring thrombin and fibrin generation

Description: Maintaining the balance between bleeding and thrombosis in patients is a significant challenge in healthcare communities. The rate of blood flow strongly influences the biochemical reactions that lead to coagulation. Conventional coagulation assays are conducted under static, no flow, conditions. This invention is of a plasma-based flow assay for measuring thrombin and fibrin generation, the two end products of the coagulation cascade. The advantage of this test is that it integrates the coagulation cascade into a fluidic architecture, which allows for measurement of these coagulation products under the hemodynamic conditions found in the body. Furthermore because this is a plasma based assay (rather than whole blood based), patient samples can be sorted for longer periods of time before being tested.

Main Advantages of this Invention

- Measure is conducted under conditions that more closely resemble in vivo processes
- Samples can be stored for longer time periods

Potential Areas of Application

- Medical Device Companies
- Blood monitoring

ID number: 12031

Intellectual Property Status: US utility patent pending (application #13/929,141)

Opportunity: We are seeking an exclusive or non-exclusive licensee for marketing, manufacturing, and sale of this technology.

For more information contact:

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