technoclone

diapharma

TECHNOZYM ADAMTS13 Activity Kit

First IVD ADAMTS13 Test to receive marketing authorization by FDA

Chromogenic Activity ELISA for the determination of ADAMTS13

The Technozym ADAMTS13 Activity assay is an enzyme-linked immunosorbent assay (ELISA) intended for the determination of ADAMTS13 activity in platelet poor human citrated plasma. The assay is intended to be used in conjunction with other clinical and laboratory findings as an aid in the qualitative diagnosis of thrombotic thrombocytopenic purpura (TTP) in adult and pediatric patients being evaluated for thrombotic microangiopathy (TMA).

ADAMTS13

A Disintegrin and Metalloprotease with ThromboSpondin Motifs

Background:

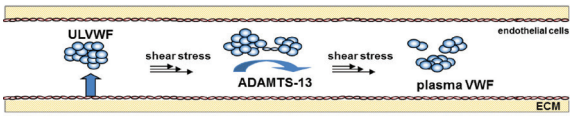
- ADAMTS13 cleaves very specific large vWF multimers under laminar flow conditions. A functional defect of ADAMTS13 leads to presence of higher molecular weight forms of vWF in plasma and thus to increased platelet aggregation.
- Thrombotic microangiopathy (TMA) is a pathologic state which results in thrombosis in capillaries and arterioles, due to an endothelial injury. The classic TMAs are atypical hemolytic uremic syndrome (aHUS) and TTP. TTP occurs at a very low ADAMTS13 activity concentration.

TECHNOZYM ADAMTS13 Activity ELISA #5450701-US

- Calibrators and Controls are traceable to WHO 1st international Standard ADAMTS13 plasma (NIBSC code 12/252)
- No interference by bilirubin, lipemic samples up to 500 mg/dL, or hemolytic samples up to 220 mg/dL

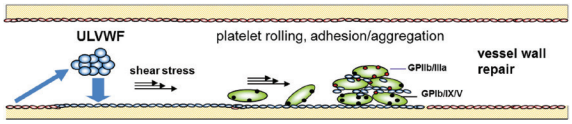
Intact Vessel Wall

ADAMTS13 regulates under normal circumstance the size of vWF multimers



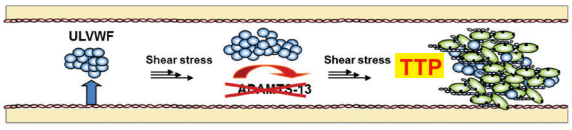
Injured/Inflamed Vessel Wall

vWF multimers build a connection between collagen and platelets

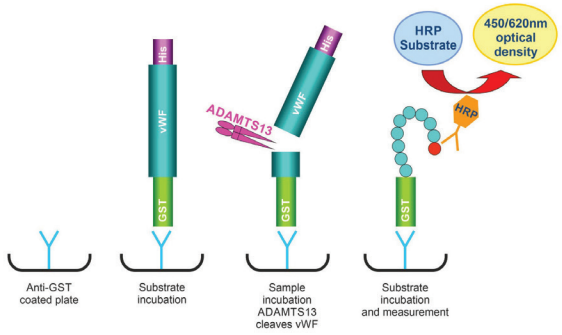


Absence of ADAMTS13

Formation of very large vWF multimers leads to platelet aggregation in healthy vessels TTP



Test Principle



Kit Contents

- 12 x 8 Anti-GST strips
- 1 x 12 ml HRP Conjugate
- 1 x 30 ml Reaction Buffer
- 1 x 53 ml Wash Buffer Concentrate
- 1 x 12 ml TMB Substrate
- 2 x 6 ml GST-vWF73 Substrate
- 1 x 12 ml Stop Solution
- 8 x 0.5 ml Calibrators and Controls*

**Additional calibrators & controls available separately.*