ADAMTS-13

Fluorogenic Assay

ADAMTS-13 ACTIVITY

1. TECHNOZYM® ADAMTS-13

2. TECHNOZYM® ADAMTS-13 CALIBRATOR SET

3. TECHNOZYM® ADAMTS-13 CONTROL SET

Characteristics

ADAMTS-13 (a disintegrin-like and metalloproteinase with thrombospondin type 1 motif 13) is an enzyme (vWF-cleaving protease or vWF-CP) that specifically cleaves unusually large von Willebrand factor (vWF) multimers, which induce platelet thrombus formation under high shear stress. If the activity of ADAMTS13 is lowered for some reason, however, unusually large vWF multimers may accumulate within blood causing thrombosis due to platelet aggregation, which in turn may lead to TTP (thrombotic thrombocytopenic purpura).

TechnoZymes

ADAMTS-13

Plate coated with anti-ADAMTS-13 antibody

**Results obtained with fluorescence plate reader BIO-TEX FLx800 TBI, available on www.technoclone.com

Fluorogenic ELISA for determination of ADAMTS-13 antigen/activity in plasma.

The TECHNOZYM® ADAMTS-13 ELISA is a test for the determination of ADAMTS-13 activity and antigen concentration in human plasma. This is believed to be the major cause for thrombotic thrombocytopenic purpura (TTP).

1. TECHNOZYM® ADAMTS-13

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<th>Cat. number</th>
<th>Conditioning</th>
<th>Package size</th>
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<td>kit</td>
<td>12 x 8</td>
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<tr>
<td>4-5450551</td>
<td>kit</td>
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</tbody>
</table>

Kit contents:

- 1 bottle of Wash Solution Concentrate (100 mL)
- 1 bottle of Incubation buffer (100 mL)
- 5 calibrators, lyophilized (0.5 mL)
- 1 vial of Low control plasma, lyophilized (0.5 mL)
- 1 vial of High control plasma, lyophilized (0.5 mL)
- 1 vial of Activity Substrate (3 mL)
- 1 vial of Conjugate (0.3 mL)
- 1 vial of Antigen Substrate (6 mL)
- 1 vial of stable Peroxyde solution (0.7 mL)
- 6/12 ELISA strips (12 x 8 wells)
- 2 adhesive films

2. TECHNOZYM® ADAMTS-13 CALIBRATOR SET

<table>
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<th>Cat. number</th>
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Calibrator plasma set for TECHNOZYM® ADAMTS-13 ELISA kit.

Calibrators (Standards) are numbered from 1 to 6; lyophilised; 1 vial each; 0.5 mL. Concentrations are lot-specific; consult the label on the vial or the batch table.

3. TECHNOZYM® ADAMTS-13 CONTROL SET

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Control plasma set for TECHNOZYM® ADAMTS-13 ELISA kit.

High and low control plasma; lyophilised; 1 vial each; 0.5 mL. Concentrations are lot-specific; consult the label on the vial or the batch table.
ELISA Assay

1. TECHNOZYM® ADAMTS-13 ACTIVITY ELISA

2. TECHNOZYM® ADAMTS-13 ACTIVITY CAL SET

3. TECHNOZYM® ADAMTS-13 ACTIVITY CONTROL SET

Test principle: TECHNOZYM® ADAMTS-13 Activity ELISA

1. Anti-GST antibody coated plate
2. GST-vWF73 substrate incubation
3. Sample incubation: ADAMTS-13 in sample cleaves vWF73 substrate
4. Incubation of HRP conjugated Ab, directed against cleavage site of vWF73 substrate

Kit contents:
- 2 vials of Substrate, lyophilized (6 mL)
- 6 calibrators, lyophilized (0.5 mL)
- 1 vial of Low control plasma, lyophilized (0.5 mL)
- 1 vial of High control plasma, lyophilized (0.5 mL)
- 1 bottle of reaction reagent (30 mL)
- 1 bottle of conjugate (12 mL)
- 1 bottle of Stop solution (12 mL)
- 12 ELISA test strips (12 x 8 wells)
- 2 adhésifs pour plaque ELISA

Chromogenic ELISA kit for the determination of ADAMTS13 activity in human plasma.

Characteristics
- Sensitivity for ADAMTS-13 activity down to 0.5% of normals
- High sensitivity for functional Inhibitor determination
- No special technique or instruments required, except for standard ELISA equipment
- Calibrators and controls included
ADAMTS-13 INHIBITORS

1. TECHNOZYM® ADAMTS-13 INH

Kit contents:
- 1 bottle of Wash Solution (80 mL)
- 1 bottle of Incubation buffer (90 mL)
- 5 calibrators, lyophilized (0.5 mL)
- 1 vial of positive control, lyophilized (0.5 mL)
- 1 vial of negative control, lyophilized (0.5 mL)
- 1 vial of Conjugate (0.3 mL)
- 1 bottle of TMB (12 mL)
- 1 bottle of Stop Solution (12 mL)
- 12 ELISA test strips (12 x 8 wells)
- 2 adhesive films

Chromogenic ELISA for determination of human autoantibodies (IgG) against ADAMTS-13 for the diagnosis of thrombotic thrombocytopenic purpura (TTP).

Use
- Test time 210 minutes.
- Sensitivity: 0.5 - 120 % (activity) and 0 - 1.5 mg/mL (antigen)

2. TECHNOZYM® ADAMTS-13 INH CALIBRATOR SET

Calibrator plasma set for TECHNOZYM® ADAMTS-13 INH.
Calibrators (Standards) are numbered from 1 to 5; lyophilised; 1 vial each; 0.5 mL. Concentrations are lot-specific; consult the label on the vial.

3. TECHNOZYM® ADAMTS-13 INH CONTROL SET

Control plasma set for TECHNOZYM® ADAMTS-13 INH.
Positive and negative control plasma; lyophilised; 1 vial each; 0.5 mL. Concentrations are lot-specific; consult the label on the vial.
ADAMTS-13

ELISA Assay

ADAMTS 13 ANTGEN

1. TECHNOZYM® ADAMTS-13 ANTIGEN ELISA
2. TECHNOZYM® ADAMTS-13 ANTIGEN CALIBRATOR SET
3. TECHNOZYM® ADAMTS-13 ANTIGEN CONTROL SET

Characteristics

A functional defect of this enzyme leads to the presence of higher molecular weight forms of vWF and thus increased platelet aggregation, mainly in the microvasculature. This is believed to be the major cause for thrombotic thrombocytopenic Purpura (TTP).

Test principle: TECHNOZYM® ADAMTS-13 Antigen ELISA

1. Plate coated with anti-ADAMTS-13 antibody
2. Sample incubation
3. Incubation of HRP conjugated antibody
4. Substrate incubation and plate reading

Chromogenic ELISA for the determination of ADAMTS13 antigen in plasma.
The TECHNOZYM® ADAMTS-13 Antigen ELISA is a chromogenic test for the determination of ADAMTS-13 antigen concentration in human plasma. ADAMTS-13 is the enzyme that cleaves vWF under laminar flow conditions.

Use

- Test time 210 minutes.
- Linearity: 0 - 1.5 µg/mL.

Calibrator plasma set for TECHNOZYM® ADAMTS-13 Antigen ELISA.
Calibrators (Standards) are numbered from 1 to 5; lyophilised; 1 vial each; 0.5 mL. Concentrations are lot-specific; consult the label on the vial.

Control plasma set for TECHNOZYM® ADAMTS-13 Antigen ELISA.
High and Low control plasma; lyophilised; 1 vial each; 0.5mL. Concentrations are lot-specific; consult the label on the vial.