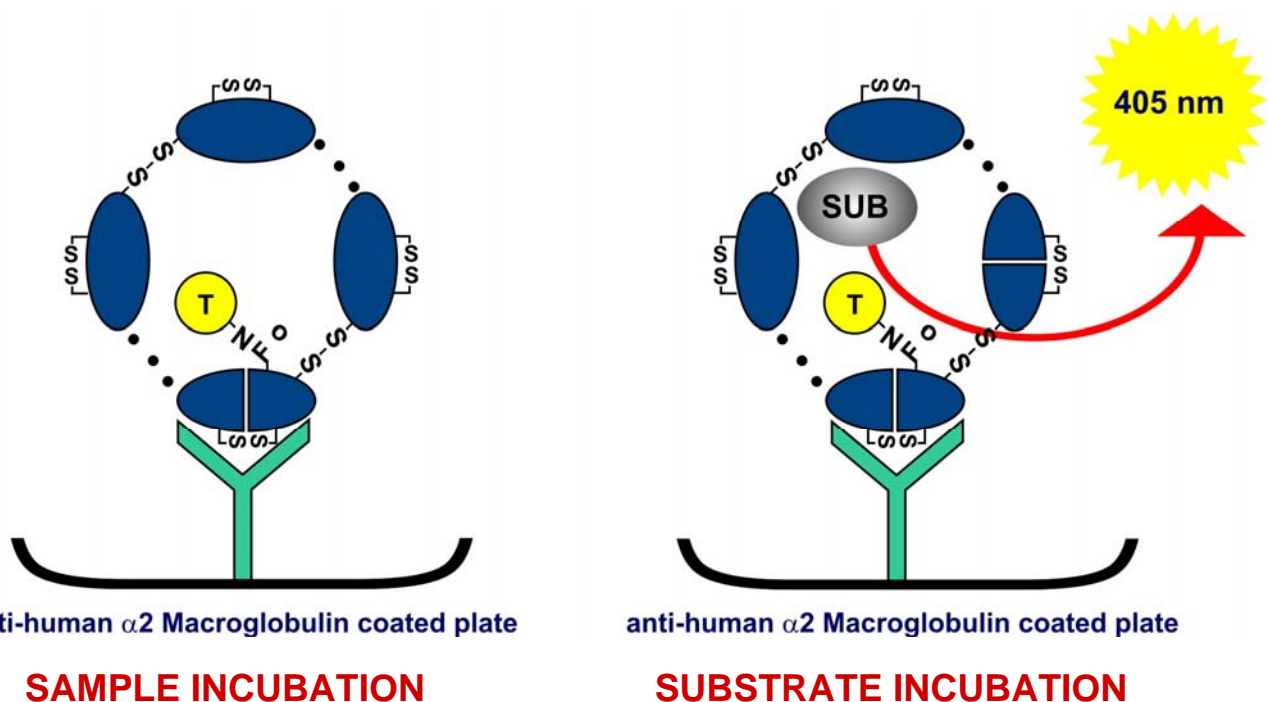

NEW! TECHNOZYM[®] TAM Activity Assay

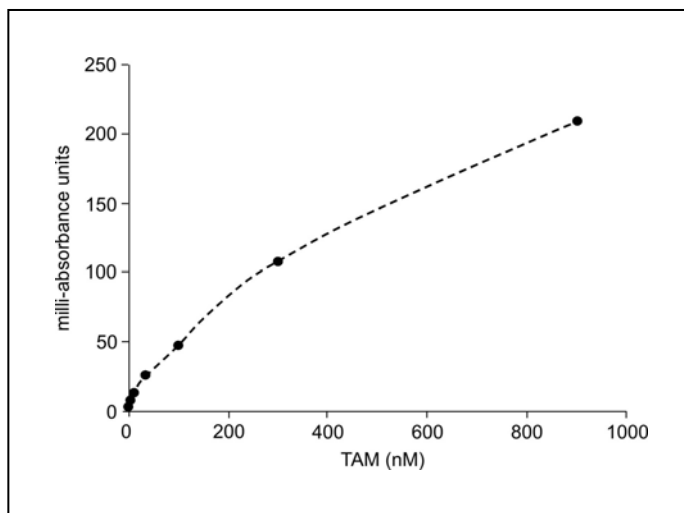
TECHNOZYM[®] TAM Activity Assay is a chromogenic assay for the specific **determination of thrombin complexed to α 2macroglobulin**. α 2macroglobulin is a broad protease inhibitor that can trap coagulation proteases within a molecular cage. Accurate analysis of the thrombin- α 2macroglobulin concentration is particularly important in thrombin generation experiments especially when different types of anticoagulants are tested and in paediatric blood diseases due to the varying amount of plasma α 2macroglobulin with respect to age.

ASSAY PRINCIPLE



Samples containing thrombin- α 2macroglobulin are incubated on 96-well plates coated with polyclonal anti-human A2M antibody. Unbound material is removed and wells washed. Detection of thrombin within the immunoabsorbed α 2macroglobulin complex is achieved by incubation with a selective thrombin substrate in the presence of antithrombin + heparin (to neutralize non-specifically bound thrombin). Thrombin- α 2macroglobulin enzyme activity is quantified by absorbance at 405 nm.

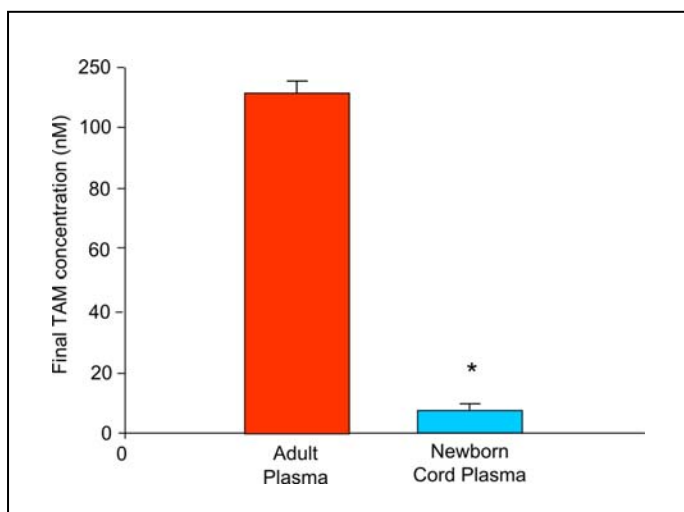
EXAMPLE OF CALIBRATION CURVE*



ADVANTAGES OF THE TECHNOZYM® TAM ACTIVITY:

- 1) Thrombin- α 2macroglobulin calibrators are prepared from purified thrombin and α 2macroglobulin.
- 2) Assay range from 1 – 1000 nM thrombin- α 2macroglobulin
- 3) short assay time (1h 20min)
- 4) calibrators and controls included

FINAL CONCENTRATION OF THROMBIN- α 2MACROGLOBULIN GENERATED IN EITHER ADULT OR NEWBORN PLASMAS.



Thrombin- α 2macroglobulin concentrations were significantly ($p = 0.048$) greater in adult compared to newborn umbilical cord plasma (111 ± 4 nM versus 7.7 ± 1.7 nM) *

*) A. Lau, L.R. Berry, L.G. Mitchell, A.K.C. Chan; Effect of substrate and fibrin polymerization inhibitor on determination of plasma thrombin generation in vitro, Thrombosis Research (2007) 119, 667—677

*) Leslie R. Berry, Nagina Parmar and Anthony K. C. Chan; DETERMINATION OF THROMBIN-ALPHA2MACROGLOBULIN COMPLEXES BY A NEW IMMUNO-ACTIVITY ASSAY, Poster ISTH Geneva 2007

ORDERING INFORMATION

REF 5006500 TECHNOZYM® TAM Activity Assay 96 T. **)

NEW!

**)"Manufactured by Technoclone in cooperation with McMaster University Hamilton, Canada"

Technoclone GmbH
Brunner Str. 59/5
1230 Vienna, Austria
Tel: +43 1 86373-10
Fax: +43 1 86373-44

Technoclone Deutschland GmbH
Hans Bunte Str. 8-10
69123 Heidelberg, Germany
Tel: +49 6221 830 441
Fax: +49 6221 830 437

Technoclone Ltd.
Eclipse House 7, Curtis Road,
Dorking/Surrey RH4 1EJ
Tel: +44 1306 888 777
Fax: +44 1306 883 883

sales@technoclone.com http://www.technoclone.com



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