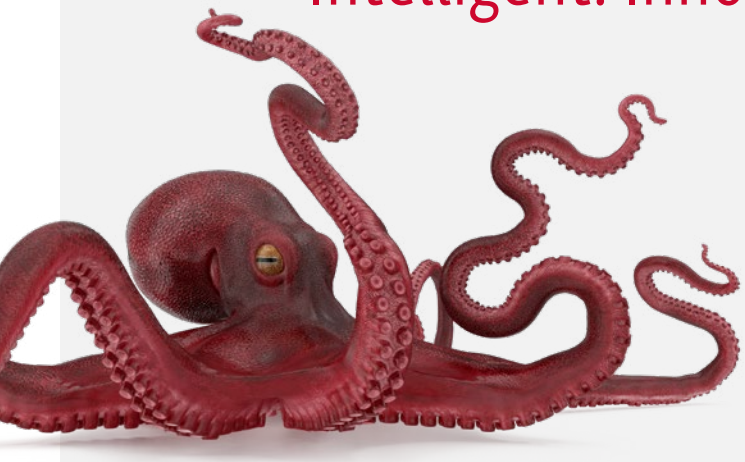
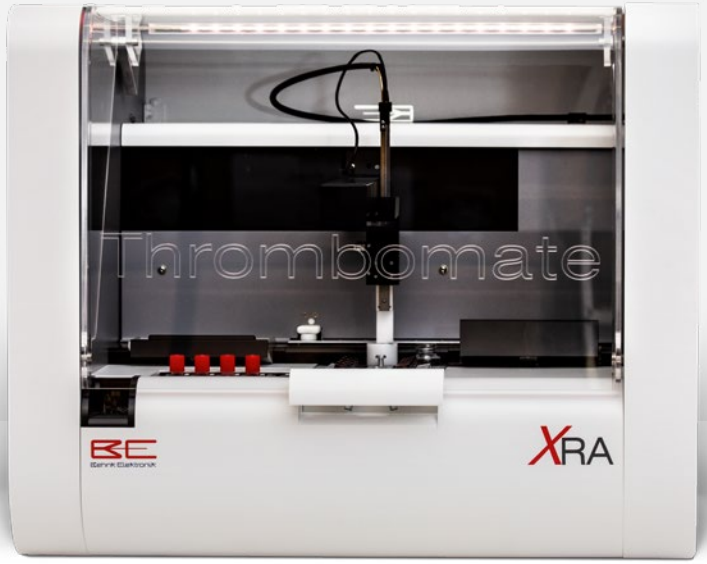
Thrombomate® XRA

Intelligent. Innovative. Reliable.





The Thrombomate® XRA is a fully-automated system for light transmission aggregometry (LTA) which delivers high quality results of platelet function meets the increasing demand for standardization of aggregometry.

- **Standardization**
  Platelet rich plasma (PRP) samples are homogenized by inverting under consistent conditions. After pipetting with cap piercing all further processes takes place in compliance by maintaining exact processing cycles. The cartridges with standardized reagents according to ISTH recommendations provide comparability among laboratories.
- **User friendly and Safety**
  The analyzer is operated via intuitive user interface and there are no special operator skills required. Minimizing the operating steps, compare to the manual method, massively reduce potential errors. Positive sample and reagent identification via barcoded reagent trays and pre-adjusted specific concentrations makes aggregometry feasible in every laboratory 24/7.
- **Measuring principle**
  Light transmission aggregation (LTA) is perceived as the golden standard in platelet function testing. Patented special cuvettes for generating the shear force with a steel ball ensure reliable results for platelet function diagnostics. Self-adjusting bi-chromatic optical detection ensures high quality results even in challenging samples (hemolytic, icteric, lipaemic).

Thrombomate® XRA Specifications:

LTA (modified Born method)	✓
Measurement with/without* PPP	✓
Standardized homogeniza¬tion of PRP	✓
Pre-adjusted reagent concentrations	✓
Continuous loading of samples, cuvet-tes, reagents	✓
Positive reagent identification	✓
Positive sample identification	✓
Full reagent and sample result tracea-bility	✓
Interference detection	✓
Intuitive user interface	✓
Continuous operation / walk away time	> 1 hour
Throughput	~ 25 tests/h
Time from standby to first result	~ 10 min.

Reaction curve and calculated data availability	Lag. Phase; Shape change; Slope; Max. agg.; AUC; dis-aggregation;
Patient data storage	Extensive database; reaction curves and calculated data
Reagent positions	Two system reagent trays (up to 5 reagents each)
LIS Interface	Bi-directional including transmission of reaction curves; RS 232
Power consumption	110 VA (max.)
Low sound Level	61 dB(A)
Analyzer dimensions (L x W x H)	63 cm x 54 cm x 55 cm
Weight	42 kg
Mains voltage	100 – 240 V
Operating system	LINUX

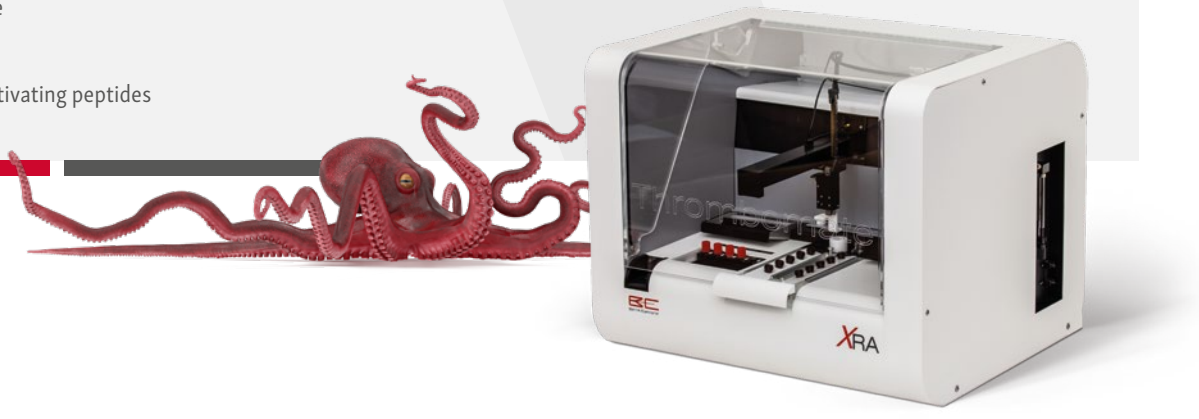
* Feature is under development

Reagent combinations for screening (e.g. LTA 1 and LTA 3) with concentrations according to ISTH recommendations and test panels for special applications. Test kits contain all consumables for the assigned number of screens.

Testkit	AA	ADP		Col	EPI	Ristocetin		TRAP	Screens/ Testkit
	1 mM	2.5 µM	5 µM	2 µg	5 µM	0.6 mg/ml	1.2 mg/ml	10 µM	
LTA 1	•	•		•	•			•	140
LTA 2	•		•	•					140
LTA 3						•	•		60
LTA 4	•	•	•	•		•			140

Further reagent combinations and test panels are in planning / preparation.

Legend:
AA - Arachidonic acid
ADP - Adenosine diphosphate
Col - Collagen
EPI - Epinephrine
TRAP - Thrombin receptor-activating peptides
Risto - Ristocetin



For further information please feel free to contact us
Phone: +49 (0) 40 - 529861-0
Fax: +49 (0) 40 - 52 98 61-99
info@behnk.de
behnk.de

Kommanditgesellschaft
Behnk Elektronik GmbH & Co.
Hans-Böckler-Ring 27
22851 Norderstedt
Germany

Precision in Hemostasis

Behnk Elektronik

2000010903