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### Assay principle

- Hemoclot T.T. is an in vitro clotting assay developed for the determination of the clotting time induced by bovine thrombin (Thrombin Time, T.T.), in presence of calcium, on human citrated plasma, and exploration of the anti-thrombin activities.
- Excellent sensitivity to low concentrations of heparin in plasma (from 0.05 to 0.10 IU/ml Unfractionated Heparin (UFH), and from 0.20 IU/ml Low Molecular Weight Heparin (LMWH), in plasma).
- Manual, semi-automatic or automatic clotting method .

### Intended use:

IVD

Measurement of the Thrombin Time (clotting time induced by bovine thrombin), in presence of calcium, on plasma, and exploration of the anti-thrombin activities, especially for low concentrations of heparin in plasma, and hirudin (qualitative detection).

#### Kit presentations:

CK011K: 6 x 20 tests (using KC10 or manual method).

CK011L: 6 x 80 tests (using KC10 or manual method).

**Reagent (R1): Bovine thrombin,** lyophilised in the presence of calcium, and stabilized.

#### **Procedure:**

• Specimen: citrated human plasma, undiluted

#### **Assay Characteristics:**

- Assay optimized to offer an excellent sensitivity to low concentrations of Unfractionated Heparin (UFH) (from 0.05 to 0.10 IU/ml in plasma), of Low Molecular Weight Heparin (LMWH) (from 0.20 IU/ml in plasma), and of hirudin or other direct thrombin inhibitors.
- Total assay time : **1 minute** or below
- Intra assay reproducibility:  $CV \le 2-6$  % (for a normal plasma clotting time, using KC10 instrument)
- Inter assay reproducibility:  $CV \le 3-8$  % (for a normal plasma clotting time, using KC10 instrument).
- Can be used with: manual, semi-automated or automated methods.

## Intra-lot homogeneity and and inter-lots reproducibility

Tested using KC10 instrument, by measuring the clotting time (CT or thrombin time, in seconds) obtained for a lyophilised normal plasma pool. N $\geq$  10 independent vials are tested for each lot of Hemoclot Thrombin Time (T.T.):

Lot	060522A	060531B	060531C	060601C	060601D
N vials	10	10	10	10	10
Mean CT (sec)	23.9	22.9	23.6	22.5	22.6
SD (sec.)	0.30	0.45	0.23	0.26	0.30
CV (%)	1.25	1.96	0.97	1.14	1.31

For the 5 manufacturing lots, the obtained CV is <3%, in compliance with the specifications.

Excellent homogeneity within a same manufacturing lot is ensured, as well as between the successive manufacturing lots.

### **Stability of reconstituted reagents**

Lot 060601D CT (sec):	Plasma 1	P1asma 1+UFH 0.05 IU/ml	Plasma 2	P1asma 2+UFH 0.05 IU/ml
Fresh	22.4	38.6	22.3	36.0
7days / 2-8°C	22.5	na	21.7	37.5
48h / RT	22.0	39.0	na	na

Excellent preservation of performances of reconstituted reagents, stored at 2-8°C for 7 days or at RT for 48 hours, compared with those of freshly reconstituted vials.

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## **Overheating study**

		Lot 060531B		Lot 060601D
CT (sec):	Plasma	P1asma +UFH 0.05 IU/ml	Plasma	P1asma +UFH 0.05 IU/ml
Fresh	23.0	37.2	21.7	34.9
30°C	22.4	38.3	21.6	37.0

Excellent preservation of performances following storage of lyophilised products for 3 weeks at 30°C comparatively to those stored at 2-8°C. Kits can be shipped at RT for a short period without damage.

#### Sensitivity to heparin; intra- and inter-assay reproducibility.

Comparison of the Unfractionated heparin (UFH) and Low Molecular Weight Heparin (LMWH) influence on the measured Thrombin Times, using the KC10 instrument, between different lots of Hemoclot Thrombin Time (T.T.) and the Stago reagent (Thrombin (2)).

Tested sample : normal plasma (45303), with addition of UFH (0-0.05-0.10 IU/ml) or LMWH (0.1-0.2-0.3 IU/ml).

	Reagent	060522A	060531B	060531C	060601C	060601D	Mean HBM	Stago			
CT (sec)											
Normal	Plasma	22.2	24	22.5	19.6	19.2	21.5	14.3			
+ UFH	0.05	27.1	29.5	41.9*	26.1	25.8	30.1 (*excl: 27.1)	15.5			
(IU/ml)	0.10	NC	NC	NC	93.2	NC	NC	18.7			
+ LMWH	0.10	22.4	24.8	24.4	21.9	21.8	23.1	15.8			
(IU/ml)	0.20	33.6	31.8	35	30.8	29.8	32.2	18.8			
	0.30	59.2	57.3	59.6	NC	56.3	58.1	23.5			

(NC: no coagulation).

<u>Conclusion :</u> Excellent sensitivity to low concentrations of UFH (from 0.05 to 0.10 IU/ml), and to LMWH from 0.20 IU/ml, as compared with the Stago reagent.

#### INTER-ASSAY REPRODUCIBILITY of clotting times obtained with or without addition of UFH 0.05 IU/ml, using the KC10 instrument:

Each value corresponds to the clotting time of a normal plasma (NP44103), or a of the same plasma supplemented with UFH at 0.05IU/ml, tested with different vials of Hemoclot TT in independent series.

Lot	06053	31B (2ml)	060601	D (8ml)	Stago		
					NP		
Vial	NP	NP +0.05 UFH	NP	NP +0.05 UFH		NP + 0.05 UFH	
n	5	5	5	5	4	4	
	20.						
Mean		4 32.8	19.7	28.7	15.6	16.3	
	20.						
median		5 30.5	19.8	27.9	15.3	16.3	
SD (sec)	0.3	4.5	0.2	2.2	1.0	0.4	
<b>CV</b> (%)	1.3	13.8	1.3	7.6	6.4	2.4	
	20.						
Min		0 27.2	19.2	25.8	14.7	15.8	
	20.						
Max		7 39.9	19.9	32.1	17.3	16.7	



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# HEMOCLOT T.T. technical file (Ref. ACK011<sup>®</sup>/L)

Each value corresponds to the clotting time of a normal plasma (NP45303), or a of the same plasma supplemented with UFH at 0.05IU/ml, tested with different vials of Hemoclot TT in independent series.

	Inter assay CV							
	L	ot 060531C	Lot 060601D					
	NP	NP+ 0,05 UFH	NP+ 0,05 UFH					
N	9	9	8	8				
Mean	24.2	51.9	22.0	41.6				
Median	24.5	53.5	21.8	41.15				
SD (sec)	1.28	2.81	0.88	3.03				
CV (%)	5.3	5.4	4.0	7.3				

**Conclusion:** inter assay CV for normal plasmas are in compliance with the specifications (<10%). Obtained CV are slightly higher for plasmas supplemented with UFH at 0.05 IU/ml, as the measured clotting times for those specimen can vary "more widely" ("weak coagulability of plasma resulting from the presence of trace amounts of heparin). An inter assay CV of 2-6% can be claimed for normal plasma, using the KC10 instrument.

#### INTRA-ASSAY REPRODUCIBILITY of clotting times obtained with or without addition of UFH 0.05 IU/ml, using the KC10 instrument:

Each individual value corresponds to the clotting time of a normal plasma (NP45302), or a of the same plasma supplemented with UFH at 0.05 IU/ml or LMWH at 0.20 IU/ml, tested with a same vial of Hemoclot TT in a same series.

Intra assay reproducibility											
Lot		0	60531C		060601D						
		NP	NP	NP+LMWH		NP	NP	NP+LMWH			
Plasma	NP	+UFH 0.05	+UFH 0.05	0.2	NP	+UFH 0.05	+UFH 0.05	0.2			
N	10	10	10	10	10	10	10	10			
Mean											
CT(sec)	20.8	40.3	43.2	38.4	21.6	35.4	31.4	36.2			
SD (sec)	1.15	15.49	4.80	7.66	0.39	6.89	4.93	10.20			
CV (%)	5.5	/	/	20.0	1.8	/	/	/			
Median	20.3	31.4	44.4	40.3	21.7	34.4	29.3	31.7			
Min	19.4	30.3	29.6	29.0	20.7	27.9	27.8	28.0			
Max	22.8	81.2	48.3	50.1	22.1	43.8	41.8	59.0			

Conclusion: intra assay CV for normal plasmas are in compliance with the specifications (3-8%). Obtained CV are "similar" or higher for plasmas supplemented with UFH at 0.05 IU/ml, as the measured clotting times for those specimen can vary "more widely" ("weak coagulability" due to presence of trace amounts of heparin). Intra assay CV of 2-6% can be claimed for normal plasma, using the KC10 instrument.

Discrimination is excellent for plasmas containing low concentrations of heparin (from 0.05 to 0.10 IU/ml UFH, and from 0.20 IU/ml LMWH).

#### **Sensitivity to Hirudin**

Goal: To evaluate the effect of hirudin concentrations in plasma up to a given concentration, on the Thrombin Time measured with the Hemoclot T.T. assay.

Materials and reagents: Hemoclot T.T: lots 060531C and 060601D; test run using the KC10 instrument.

Preparation of tested plasma samples: 3 normal plasmas (I, II, III) are supplemented with increasing concentrations of hirudin, and then tested for clotting time using the Hemoclot T.T. assay.

	()	(I)		(11)		(111)		Mean N=3	
Lot	060531C	060601D	060531C	060601D	060531C	060601D	060531C	060601D	mean CT
HIR (ATU/mI)			СТ	sec)			Mean CT (sec)		(sec)
0	22.5	21.9	22.7	23	21.8	21.7	22.3	22.2	22.3
0.125	26.4	23.3	25.3	26.5	24.6	24.5	25.4	24.8	25.1
0.25	30	25.8	28.2	29.9	28.4	27.6	28.9	27.8	28.3
0.50	50.5	37.2	45.2	43.9	41.1	42.3	45.6	41.1	43.4
1	NC*	NC	NC	NC	NC	NC	NC	NC	NC
	Lot HIR (ATU/ml) 0 0.125 0.25 0.50 1	Lot 060531C HIR (ATU/ml) 0 22.5 0.125 26.4 0.25 30 0.50 50.5 1 NC*	Lot         060531C         060601D           HIR (ATU/ml)         0         22.5         21.9           0.125         26.4         23.3         25.8           0.25         30         25.8         25.8           0.50         50.5         37.2         37.2           1         NC*         NC	Lot         060531C         060601D         060531C           HIR (ATU/ml)         CT (           0         22.5         21.9         22.7           0.125         26.4         23.3         25.3           0.25         30         25.8         28.2           0.50         50.5         37.2         45.2           1         NC*         NC         NC	Lot         060531C         060601D         060531C         060601D           HIR (ATU/ml)         CT (sec)           0         22.5         21.9         22.7         23           0.125         26.4         23.3         25.3         26.5           0.25         30         25.8         28.2         29.9           0.50         50.5         37.2         45.2         43.9           1         NC*         NC         NC         NC	Lot         060531C         060601D         060531C         060601D         060531C           HIR (ATU/ml)         CT (sec)         CT (sec)	Lot         060531C         060601D         060531C         060601D         060531C         060601D           HIR (ATU/ml)         CT (sec)           0         22.5         21.9         22.7         23         21.8         21.7           0.125         26.4         23.3         25.3         26.5         24.6         24.5           0.25         30         25.8         28.2         29.9         28.4         27.6           0.50         50.5         37.2         45.2         43.9         41.1         42.3           1         NC*         NC         NC         NC         NC         NC         NC	Lot         060531C         060601D         060531C         060601D         060531C         060601D         060531C           HIR (ATU/ml)         CT (sec)         Mean 0           0         22.5         21.9         22.7         23         21.8         21.7         22.3           0.125         26.4         23.3         25.3         26.5         24.6         24.5         25.4           0.25         30         25.8         28.2         29.9         28.4         27.6         28.9           0.50         50.5         37.2         45.2         43.9         41.1         42.3         45.6           1         NC*         NC         NC         NC         NC         NC         NC         NC	Lot         060531C         060601D         060531C         060601D         060531C         060601D         060531C         060601D         060531C         060601D         06

Conclusion: A good Thrombin Time sensitivity is observed for low concentrations of hirudin (clotting time prolonged from 0.25 ATU/ml or 17 ng/ml, using the KC10 instrument). (NC\*: No coagulation) D.750.30/CK/011 /1 - Page 4/8 ////ARA 7768 Service Center Drive · West Chester OH 45069 Phone: 513.770.1991 Toll Free: 866.783.3797 Fax: 513.573.9241 Email: info@aniara.com



### Interference of fibrinogen degradation products, bilirubin, & haemoglobin

<u>Goal:</u> To evaluate the interference of fibrinogen degradation products, bilirubin, and haemoglobin concentrations in plasma up to a given concentration, on clotting time measurement using the HEMOCLOT T.T. assay.

#### Materials and reagents:

-Hemoclot T.T: lots 060531C and 060601D.

-Fibrinogen degradation products (FDP) (HBM), Bilirubin (Bil) and Haemoglobin (Hb) (Sigma).

-Normal plasma samples (P).

**Preparation of tested plasma samples:** normal plasmas (P) are supplemented with increasing concentrations of FDP, bilirubin or haemoglobin, and then tested for Thrombin Time using Hemoclot T.T. assay.

#### Results (tested using KC10 instrument):

Plasma	Р	P1 P2				P3		Mean N=3	
Lot	060531C	060601D	060531C	060601D	060531C	060601D	060531C	060601D	Global mean
	CT (sec)							CT (sec)	CT (sec)
0	22.4	21.8	21.1	20.2	20.8	19.5	21.4	20.5	21.0
50	22.9	22.4	17.9	20.9	21.1	22.7	20.6	22.0	21.3
200	23.3	22.8	19.6	19.9	21.6	22.4	21.5	21.7	21.6
500	23.3	24.2	20.7	19.5	22.4	24	22.1	22.6	22.4
1000	22.9	24.9	20.2	19.9	23	23.1	22.0	22.6	22.3

	(4)		(5)		(6)		Mean N=3		
Lot	060531C	060601D	060531C	Form / 060601D₄	AH42 20060531C	060601D	060531C	060601D	Global
Bili. (mg/ml)			Mean C	CT (sec)	CT (sec)				
0	20.7	21.5	20.6	21.6	20.5	20.0	20.6	21.0	20.8
0.01 mal»	20.2	21.6	19.3	21.4	19.2	20.0	19.6	21.0	20.3
0.10	19.8	22.3	18.7	21.2	18.7	19.2	19.1	20.9	20.0
0.25	19.4	21.6	19.5	19.9	19.9	19.2	19.6	20.2	19.9
0.50	18.8	20.7	18.9	19.7	18.1	21.5	18.6	20.6	19.6
	(1	1)	(2	2)	(;	3)	Mea	n N=3	Global
Lot	(1 060531C	060601D	(2 060531C	2) 060601D	(: 060531C	3) 060601D	Mea 060531C	n N=3 060601D	Global mean
Lot Hb. (mg/ml)	(1 060531C	060601D	(2 060531C CT (	2) 060601D (sec)	(: 060531C	<sup>3)</sup> 060601D	Mea 060531C Mean	n N=3 060601D CT (sec)	Global mean CT (sec)
Lot Hb. (mg/ml) 0	(1 060531C 20.7	060601D	(2 060531C CT ( 20.6	2) 060601D (sec) 21.6	(; <b>060531C</b> 20.5	3) 060601D 20.0	Mea 060531C Mean 20.6	n N=3 060601D CT (sec) 21.0	Global mean CT (sec) 20.8
Lot Hb. (mg/ml) 0 0.1 mal»	(1 060531C 20.7 20.6	21.5 21.0	(2 060531C CT ( 20.6 19.7	2) 060601D (sec) 21.6 20.6	(; 060531C 20.5 18.4	3) 060601D 20.0 19.5	Mea 060531C Mean 20.6 19.6	n N=3 060601D CT (sec) 21.0 20.4	Global mean CT (sec) 20.8 20.0
Lot Hb. (mg/ml) 0 0.1 mal» 1.0	(1 060531C 20.7 20.6 20.7	1) 060601D 21.5 21.0 22.2	(2 060531C CT ( 20.6 19.7 19.4	2) 060601D (sec) 21.6 20.6 na	(; 060531C 20.5 18.4 18,8	3) 060601D 20.0 19.5 19.9	Mea 060531C 060531C 20.6 19.6	n N=3 060601D CT (sec) 21.0 20.4 21.1	Global mean CT (sec) 20.8 20.0 20.3
Lot Hb. (mg/ml) 0 0.1 mal» 1.0 2.5	(1 060531C 20.7 20.6 20.7 19.9	1) 060601D 21.5 21.0 22.2 21.9	(2 060531C 20.6 19.7 19.4 21.2	2) 060601D (sec) 21.6 20.6 na 20.1	(; 060531C 20.5 18.4 18,8 18.9	3) 060601D 20.0 19.5 19.9 19.8	Mea 060531C 20.6 19.6 19.6 20.0	n N=3 060601D CT (sec) 21.0 20.4 21.1 20.6	Global mean CT (sec) 20.8 20.0 20.3 20.3

**Conclusions:** No significant interference on clotting times obtained for FDP until 1mg/ml in plasma, for bilirubin until 0.25 mg/ml in plasma (25x normal concentration), and for haemoglobin until 2.5 mg/ml in plasma (25 x normal concentration), using the KC10 instrument. The incidence of FDP directly generated in the tested plasma (by Streptokinase) needs to be evaluated.

However, Thrombin Time may be affected by many usual drugs, and further studies should be run to determine the source of unexpected abnormal results.

In order to get the full assay performances, the working instructions must be carefully observed.

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## Adaptations to intruments.

Goal: Comparison of the device performances for clotting time measurement on different instruments.

Material: Hemoclot T.T. lot 060531C.

<u>Samples:</u> 31 normal frozen citrated plasma samples, 9 plasmas from patients under dicoumarol therapy, and normal plasmas with addition of various concentrations of UFH or LMWH.

Protocols on the different instruments: according to the specific adaptation for each instrument.

**Results :** 

Normal	
frozen plasmas	KC10
Ν	56
Mean CT (sec)	20.8
median	20.8
SD	1.72
min	16.9
max	24.5
mean+2SD	24.2

Instrument	KC 10	STA	Amax Destiny (mecha.)	Amax Destiny (optic.)	ACL (optic.)				
		C	CT (sec)						
		NORMAL PI	ASMA SAMPLES						
N	31	31	31	31	31				
Mean	20.9	21.6	23.2	18.0	17.3				
SD	2.00	1.86	1.72	1.60	1.25				
Min	16.9	17.0	20.9	15.8	15.4				
Max	24.5	25.8	26.9	21.6	20.3				
Median	20.5	21.3	22.8	17.5	17.4				
Mean+2SD	24.9	25.4	26.7	21.2	19.8				
PLASMAS OF PATIENTS UNDER DICOUMAROL THERAPY									
N	9	9	9	9	9				
Mean	18.1	18.0	19.6	10.3	<15.4				
SD	1.31	2.46	0.99	0.70	na				
Min	16.5	14.8	17.4	9.5	na				
Max	20.3	23.8	20.9	11.9	na				
		PLASMAS WITH	ADDITION OF HEP	ARIN					
0	19.3	21.0-21.4-22.2	23.2	18.2	17.2				
0.1 LMWH	24.3	27.8	30.2	21.4	21.4				
0.2 LMWH	35.0	51.0-53.8-55.1	NC-NC	29.5-34.8	29.1				
0.3 LMWH	84	NC	NC	82	41.7				
0.05 UFH	30.6	41.5-42.2-41.3	36.7	25.2	25.6				
0.1UFH	NC	NC	NC	NC	120.1				

#### Conclusion:

Good discrimination of plasmas containing low concentrations of heparin will all instruments.
Similarities and differences are noticed between the methods:

-According to the detection mode: clotting times obtained with « optical » methods are shorter than those obtained with « mechanical » methods.

- Obtained clotting times using ACL or Destiny (optical) are similar.

- Obtained clotting times using the STA and KC10 (mechanical methods) are similar.

-Obtained clotting times using the AMAX Destiny are higher than those obtained with other « mechanical detection », but « similar aspect » of the curve.

•Note: each laboratory should confirm the range of clotting times values obtained for normal plasmas, that can vary with the reagent lot and the instrument used. Further studies should be systematically run to investigate the source of unexpected abnormal results.



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Inter-lots performances comparison, and comparison with Diagnostica Stago device (Thrombin (2)), on normal frozen or lyophilised plasmas, and on plasmas of patients under Dicoumarol therapy, with the KC10 instrument.

<u>Goal:</u> Inter-lots comparison of the Hemoclot T.T. device performances (5 lots), and comparison with a commercial device, for clotting time measurements on plasma samples, using KC10.

Material:

Reagent lots	060522A	<u>060531B</u>	<u>060531C</u>	<u>060601C</u>	<u>060601D</u>	Stago lot 051442
Expiration dates	2008-11	2008-11	2008-11	2008-12	2008-12	2007-05
Vol. Reconst.	8ml	2ml	8ml	2ml	8ml	2ml

<u>Samples:</u> 49 samples (37 normal frozen plasmas, 4 lyophilised normal plasmas, and 8 plasmas of patients under dicoumarol therapy (AVK)).

Protocol on KC10 instrument: according to the device insert.

**Results:** 

	Clotting times (in seconds) for normal frozen/thawed citrated plasmas						
	Lot 060522A	Lot 060531B	Lot 060531C	Lot 060601C	Lot 060601D	Stago	
Ν	37	37	37	37	37	37	
Mean	22.3	20.0	20.8	19.8	19.1	16.0	
Median	21.8	19.9	20.8	20.5	19.0	15.1	
SD (sec)	1.83	1.88	1.78	1.95	1.89	2.26	
Mean-2SD	18.6	16.3	17.2	15.9	15.3	11.5	
Mean+2SD	25.9	23.8	24.4	23.7	22.9	20.6	
Min	19.7	17.1	17.1	15.2	15.0	13.1	
Max	27.1	25.5	24.4	24.8	24.1	20.6	

	Clotting times (in seconds) for normal lyophilised citrated plasmas						
	Lot 060522A	Lot 060531B	Lot 060531C	Lot 060601C	Lot 060601D	Stago	
Ν	4	4	4	4	4	4	
Mean (sec)	21.0	21.7	20.7	20.2	18.8	18.5	
SD	0.50	1.42	1.31	0.49	0.75	0.35	

	Clotting times (in seconds) for plasmas of patients under dicoumarol therapy							
	Lot 060522A	Lot 060531B	Lot 060531C	Lot 060601C	Lot 060601D	Stago		
N	8	8	8	8	8	8		
Mean	20.0	19.0	18.8	17.4	18.4	15.7		
SD	1.93	1.81	1.66	1.52	1.34	1.91		
Min	16.7	15.9	15.1	15.4	16.6	11.0		
Мах	23.9	21.3	20.4	20.2	20.8	17.5		



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#### **CONCLUSIONS**:

Obtained clotting times, for the 5 Hemoclot T.T. lots, using KC10 instrument, on normal citrated frozen and thawed human plasmas, are in the range 15 to 25 seconds (min-max or mean  $\pm$ 2SD for N=37).

Obtained CT are slightly higher with the first produced lot (060522A).

Obtained clotting times with Stago reagent are slightly shorter (at least for the lot used). The obtained SD is <2seconds for Hemoclot T.T. lots, and slightly higher for Stago reagent. Clotting times for lyophilised plasmas or plasmas from patients under dicoumarol therapy remain significantly unchanged (CT  $\approx$ 18-20 sec).

#### **<u>Clinical applications</u>**

Determination of the thrombin time on human citrated plasma. Excellent sensitivity to low concentrations of heparins (from 0.05 to 0.10 IU/ml UFH, and from 0.20 IU/ml LMWH in plasma), and for all direct Thrombin Inhibitors.

References:

Samama MM., Elalamy I., Conard J., Achkar A., Horellou MH., « Hémorragies et thromboses : du diagnostic au traitement », Paris : Masson, 15-16, 60, 2004.

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