



**AIA<sup>®</sup> - CL**

# Assay Menu Specifications



**TOSOH BIOSCIENCE**  
Better Diagnostics For Better Living



## Test Cups

- 1 cup** = 1 test
- Up to 25 months** expiration date
- Up to 2 months** onboard stability \*



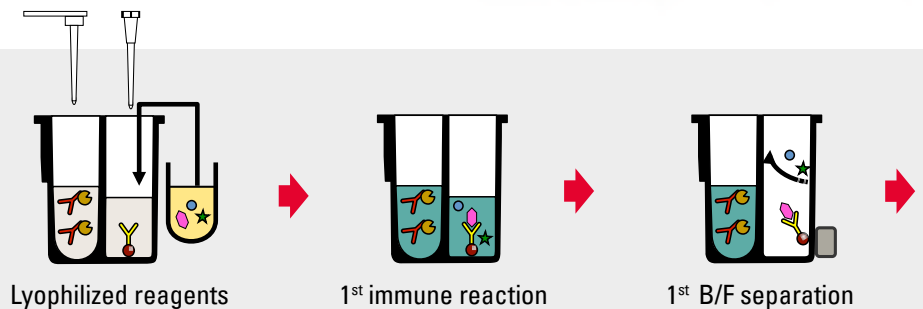
## Adjusters

- 180-day** onboard stability \*
- Automatic** use on-demand
- 90-day** calibration stability for all assays

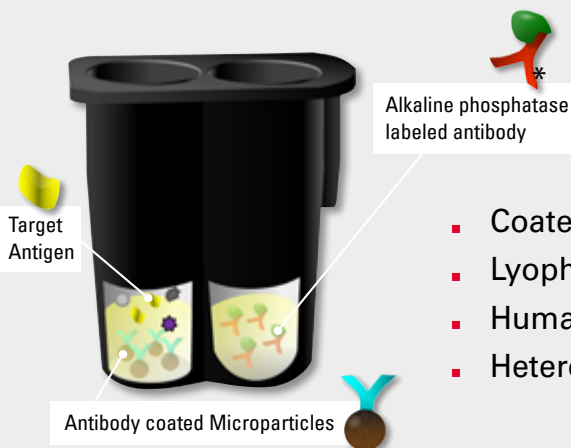
\* only available for AIA-CL1200 and AIA-CL2400

### Assay principle of AIA®-CL Pack

2-step sandwich  
Chemiluminescent Enzyme  
Immunoassay



## AIA®-CL twin cup: heart of the system



- Coated magnetic micro-particles
- Lyophilized reagents
- Human anti-Mouse Antibodies (HAMA) blocking reagents \*
- Heterophilic Antibodies blocking reagents \*

\* appropriate addition

**1.** Fast reaction & turn around time (TAT)  
Wide dynamic range

**2.** Excellent analytical  
High sensitivity



## Sample Diluting Reagents

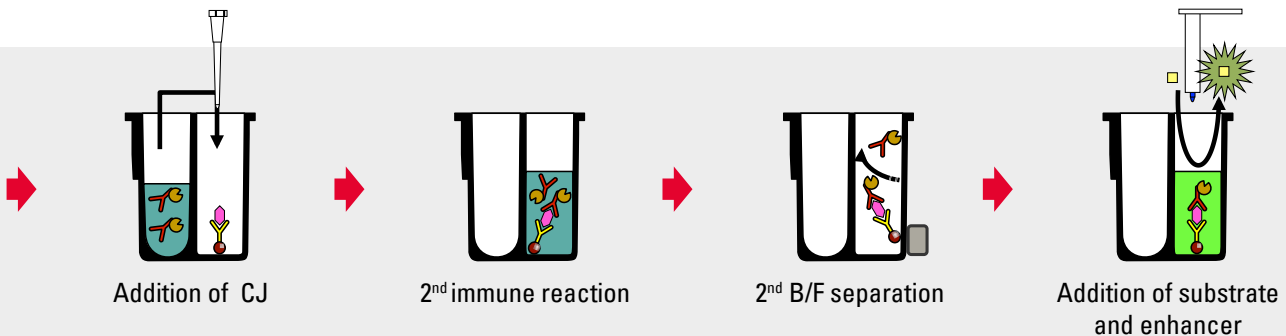
- 180-day** onboard stability \*
- Each diluent** can be used by multiple analytes
- Automatic** use on-demand



## Consumables

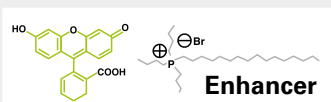
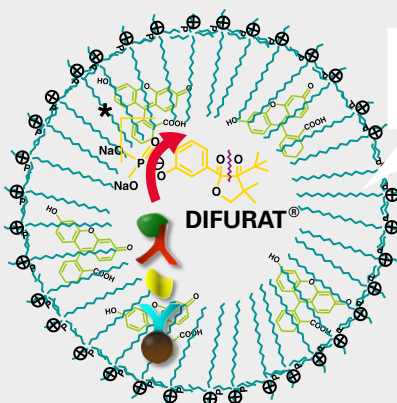
- Great onboard** stability and shelf life
- Innovative** CL substrate and enhancer
- Limited number** of consumables all ready to use

\* only available for AIA-CL1200 and AIA-CL2400



## DIFURAT<sup>®</sup>: Tosoh innovative substrate

3-(5-tert-Butyl-4,4-dimethyl-2,6,7-trioxabicyclo[3.2.0] hept-1-yl) phenylphosphate disodium salt



- Higher Stability
- Lower Background
- High light emission
- Enhancer multiples the signal

performance

**3.** Low sample volume  
Less reaction & serum interference

# Reagent Specs

90-day calibration stability for all assays

Group	Test abbreviation	Test Name	Test cups (TC) Cat No	AIA-CL adjusters Cat No	Controls Cat No	Sample diluting reagents		Auto Sample Pretreat/Dilution*
						Type (SDR)	Cat N°	
Thyroid	FT3	CL AIA-PACK FT3	0029102	0029202	MAC 0960474	NA	NA	
	FT4	CL AIA-PACK FT4	0029103	0029203	MAC 0960474	NA	NA	
	T3	CL AIA-PACK T3	0029104	0029204	MAC 0960474	A	0029401	
	T4	CL AIA-PACK T4	0029105	0029205	MAC 0960474	A	0029401	
	Tg	CL AIA-PACK Thyroglobulin	0029106	0029206	0025427	A	0029401	
	TgAb	CL AIA-PACK TgAb	0029119	0029219	0025491	A	0029401	D (1:25)
	TPOAb	CL AIA-PACK TPOAb	0029118	0029218	0025490	A	0029401	D (1:25)
	TSH	CL AIA-PACK TSH	0029101	0029201	MAC 0960474	A	0029401	
Fertility	DHEA-S	CL AIA-PACK DHEA-S	0029165	0029265	MAC 0960474	I	0029409	
	E2	CL AIA-PACK Estradiol	0029121	0029221	MAC 0960474	D	0029404	
	FSH	CL AIA-PACK FSH	0029127	0029227	MAC 0960474	D	0029404	
	HCG	CL AIA-PACK HCG	0029123	0029223	MAC 0960474	D	0029404	
	LH	CL AIA-PACK LH	0029124	0029224	MAC 0960474	D	0029404	
	PRL2	CL AIA-PACK Prolactin II	0029171	0029271	MAC 0960474	D	0029404	
	PROG	CL AIA-PACK Progesterone	0029122	0029222	MAC 0960474	PROG SDR	0029422	
	SHBG	CL AIA-PACK SHBG	0029139	0029239	0025438	A	0029401	D (1:20)
	TES	CL AIA-PACK Testosterone	0029130	0029230	MAC 0960474	I	0029409	
	βHCG	CL AIA-PACK B-HCG	0029128	0029228	MAC 0960474	D	0029404	
Cardiac	BNP	CL AIA-PACK BNP	0029109	0029209	0025428	A	0029401	
	CK-MB	CL AIA-PACK CK-MB	0029134	0029234	MAC 0960474	C	0029403	
	cTnI	CL AIA-PACK cTnI	0029126	0029226	MAC 0960474	C	0029403	
	DD	CL AIA-PACK D-Dimer	0029142	0029242	0025432	C	0029403	
	MYO	CL AIA-PACK Myoglobin	0029133	0029233	MAC 0960474	C	0029403	
Diabetes	CPep	CL AIA-PACK C-peptide	0029132	0029232	MAC 0960474	A	0029401	
	IRI	CL AIA-PACK Insulin (IRI)	0029131	0029231	MAC 0960474	A	0029401	

C = competitive assay  
P = plasma  
D = dilution  
PT = pretreatment

Reporting Time (approx. min)	Measurement Principle*	Adjuster points	Sample Type*	Sample Volume* (µL)	Assay L	Assay H	Units	Standard Used
15	delayed 1-step C	3	Serum, P(hep)	20	0,5	25	pg/mL	Internal ref. std
15	delayed 1-step C	3	Serum, P(hep)	5	0,1	8	ng/dL	Internal ref. std
15	delayed 1-step C	3	Serum	10	0,2	8	ng/mL	USP ref. std Liothyronine
15	delayed 1-step C	3	Serum	5	0,5	24	µg/dL	USP ref. std Liothyronine
15	2-step sandwich	2	Serum, P(hep)	5	0,1	1000	ng/mL	IRMM CRM457
15	2-step sandwich	2	Serum, P(hep)	10 (D)	5	2500	IU/mL	NIBSC 65/093
15	2-step sandwich	2	Serum, P(hep)	5 (D)	3	1000	IU/mL	NIBSC 66/387
15	2-step sandwich	2	Serum, P(hep)	50	0,003	120	µIU/mL	WHO 3 <sup>rd</sup> NIBSC 81/565
15	delayed 1-step C	3	Serum, P(hep,EDTA)	10	2	1000	µg/dL	Internal ref. std
15	delayed 1-step C	3	Serum, P(hep)	30	20	3000	pg/mL	IRMM CRM457
15	2-step sandwich	2	Serum, P(hep)	10	0,1	250	mIU/mL	WHO 1 <sup>st</sup> NIBSC 92/510
15	2-step sandwich	2	Serum, P(hep), U	5	0,3	10000	mIU/mL	WHO 5 <sup>th</sup> NIBSC 07/364
15	2-step sandwich	2	Serum, P(hep)	5	0,1	250	mIU/mL	WHO 2 <sup>nd</sup> NIBSC 80/552
15	2-step sandwich	2	Serum, P(hep)	10	0,1	400	ng/mL	WHO 4 <sup>th</sup> NIBSC 83/573
15	delayed 1-step C	3	Serum, P(hep)	20	0,1	40	ng/mL	USP ref. std Progesterone
15	2-step sandwich	2	Serum, P(hep)	10 (D)	0,1	250	nmol/L	WHO 2 <sup>nd</sup> NIBSC 08/266
15	delayed 1-step C	3	Serum, P(hep)	30	7	2000	ng/dL	USP ref. std Testosterone
15	2-step sandwich	2	Serum, P(hep)	10	0,1	5000	mIU/mL	WHO 5 <sup>th</sup> NIBSC 07/364
15	2-step sandwich	2	P(EDTA)	10	2	5000	pg/mL	Internal ref. std
15	2-step sandwich	2	Serum, P(hep,EDTA)	5	0,1	500	ng/mL	Internal ref. std
15	2-step sandwich	2	Serum, P(hep,EDTA)	50	10	50000	pg/mL	NIST SRM 921
15	2-step sandwich	2	P(hep, citr)	10	0,02	16	µg/mL	Internal ref. std
15	2-step sandwich	2	Serum, P(hep)	5	1	3000	ng/mL	Internal ref. std
15	2-step sandwich	2	Serum, P(hep,EDTA), U	5	0,01	40	ng/mL	WHO 1 <sup>st</sup> NIBSC 84/510
15	2-step sandwich	2	Serum, P(hep,EDTA)	10	0,2	1000	µU/mL	WHO 1 <sup>st</sup> NIBSC 66/304

# Reagent Specs

90-day calibration stability for all assays

						Sample diluting reagents		
Group	Test abbreviation	Test Name	Test cups (TC) Cat No	AIA-CL adjusters Cat No	Controls Cat No	Type (SDR)	Cat N°	Auto Sample Pretreat/Dilution*
Tumour	27.29	CL AIA-PACK 27.29	0029111	0029211	MAC 0960474	B	0029402	
	AFP	CL AIA-PACK AFP	0029107	0029207	MAC 0960474	B	0029402	
	B2-M	CL AIA-PACK $\beta$ 2-Microglobulin	0029141	0029241	MAC 0960474	B	0029402	D (1:25, 1:5 U)
	CEA	CL AIA-PACK CEA	0029108	0029208	MAC 0960474	B	0029402	
	fPSA	CL AIA-PACK free PSA	0029117	0029217	MAC 0960474	B	0029402	
	OVCA	CL AIA-PACK OVCA	0029115	0029215	MAC 0960474	B	0029402	
	PIVKA II	CL AIA-PACK PIVKA II	0029144	0029244	0025433	A	0029401	
	PSA	CL AIA-PACK PSA	0029116	0029216	MAC 0960474	B	0029402	
	SCC	CL AIA-PACK SCC	0029147	0029247	0025437	A	0029401	
	SLa	CL AIA-PACK SLa	0029113	0029213	MAC 0960474	B	0029402	
Anaemia	B12	CL AIA-PACK Vit B12	0029167	0029267	MAC 0960474	F	0029406	PT1 0029567 PT2 0029767
	FER	CL AIA-PACK Ferritin	0029136	0029236	MAC 0960474	A	0029401	
	FOL	CL AIA-PACK Folate	0029155	0029255	MAC 0960474	F	0029406	PT 0029555
Infectious	CMV IgG	CL AIA-PACK CMV IgG	0029157	0029257	Accurun	E	0029405	D (1:10)
	Rub IgG	CL AIA-PACK Rubella IgG	0029156	0029256	Accurun	E	0029405	D (1:10)
	Toxo IgG	CL AIA-PACK Toxo IgG	0029159	0029259	Accurun	E	0029405	D (1:10)
Others	ACTH	CL AIA-PACK ACTH	0029145	0029245	0025421	C	0029403	
	CORT	CL AIA-PACK Cortisol	0029138	0029238	MAC 0960474	CORT SD	0029438	
	hGH	CL AIA-PACK hGH	0029135	0029235	MAC 0960474	A	0029401	
	IgE	CL AIA-PACK IgE	0029143	0029243	MAC 0960474	B	0029402	
	iPTH	CL AIA-PACK Intact PTH	0029140	0029240	MAC 0960474	C	0029403	
	KL-6	CL AIA-PACK KL-6	0029158	0029258	0025444	B	0029402	D (1:25)
	PSP	CL AIA-PACK Presepsin	0029166	0029266	0025442	D	0029404	
	VitD	CL AIA-PACK Vit D	0029146	0029246	MAC 0960474	NA	NA	PT 0029546

C = competitive assay  
P = plasma  
D = dilution  
PT = pretreatment

Reporting Time (approx. min)	Measurement Principle*	Adjuster points	Sample Type*	Sample Volume* (µL)	Assay L	Assay H	Units	Standard Used
15	2-step sandwich	2	Serum, P(hep)	5	0,5	500	U/mL	Internal ref. std
15	2-step sandwich	2	Serum, P(hep)	5	0,2	3000	ng/mL	WHO 1 <sup>st</sup> AFP 72/225
15	2-step sandwich	2	Serum, P(hep), U	5 (D)	0,05	20	mg/L	WHO 1 <sup>st</sup> NIBSC B2M
15	2-step sandwich	2	Serum, P(hep)	10	0,2	1500	ng/mL	WHO 1 <sup>st</sup> Preparation 73/601
15	2-step sandwich	2	Serum, P(hep)	10	0,02	20	ng/mL	WHO 1 <sup>st</sup> NIBSC 96/668
15	2-step sandwich	2	Serum, P(hep)	20	0,5	2000	U/mL	Internal ref. std
15	2-step sandwich	2	Serum, P(hep)	5	5	75000	mAU/mL	Internal ref. std
15	2-step sandwich	2	Serum, P(hep)	10	0,003	100	ng/mL	WHO 1 <sup>st</sup> NIBSC 96/670
15	2-step sandwich	2	Serum, P(hep)	20	0,1	100	ng/mL	Internal ref. std
15	2-step sandwich	2	Serum, P(hep)	5	0,5	1500	U/mL	Internal ref. std
25	delayed 1-step C	3	Serum	50 (for PT)	90	2000	pg/mL	Internal ref. std
15	2-step sandwich	2	Serum, P(hep)	10	1	1000	ng/mL	WHO 3 <sup>rd</sup> NIBSC 94/572
25	delayed 1-step C	3	Serum	40 (for PT)	1	20	ng/mL	WHO 1 <sup>st</sup> NIBSC 03/178
15	2-step sandwich	2	Serum, P(hep)	10 (D)	0,1	60	IU/mL	WHO 1 <sup>st</sup> PEI 136616/17
15	2-step sandwich	2	Serum, P(hep)	10 (D)	0,1	500	IU/mL	WHO 1 <sup>st</sup> NIBSC RUBI-1-94
15	2-step sandwich	2	Serum, P(hep)	10 (D)	0,1	200	IU/mL	WHO NIBSC 01/600
15	2-step sandwich	2	P(EDTA)	20	1	2000	pg/mL	Internal ref. std
15	delayed 1-step C	3	Serum, P(hep,EDTA)	20	0,2	60	µg/dL	IRMM ERM -DA192
15	2-step sandwich	2	Serum, P(hep)	10	0,07	45	ng/mL	WHO 2 <sup>nd</sup> NIBSC 98/574
15	2-step sandwich	2	Serum, P(hep)	10	0,3	4000	IU/mL	WHO 3 <sup>rd</sup> NIBSC 11/234
15	2-step sandwich	2	Serum, P(EDTA)	20	1	5000	pg/mL	WHO 1 <sup>st</sup> IRP 79/500 (40% recovery)
15	2-step sandwich	2	Serum, P(hep)	10 (D)	10	6000	U/mL	Internal ref. std
15	2-step sandwich	2	Serum, P(hep)	10	20	20000	pg/mL	Internal ref. std
35	delayed 1-step C	3	Serum, P(hep,EDTA)	20 (for PT)	4	150	ng/mL	NIST SRM 2972



# AIA<sup>®</sup>-CL

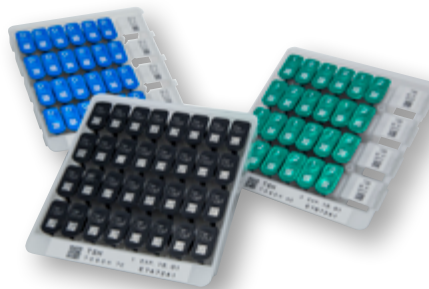
## Advanced Automation, Analytical Sensitivity, Affirmed Performance



**AIA<sup>®</sup>-CL300**  
🕒 30 results per hour



**AIA<sup>®</sup>-CL2400**  
🕒 240 results per hour



**AIA<sup>®</sup>-CL1200**  
🕒 120 results per hour

The **AIA-CL automated analysers** are the latest addition to Tosoh's immunoassay instrument range. They all use the patented enhanced chemiluminescence technology. **Sensitivity, reproducibility and build quality** are following Tosoh's long history and high standards.

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