

Technical Guide Assays, Controls & Equipment













Product List	Page
AccuBind®ELISA & AccuLiteCLIA	4-5 6
SURE Controls	6
Equipment	6

Monobind Assay	Page
Classification	7
Summary	8

Fips for Interpreting Assay Results	Page
Bad Duplication	14
High Background	14
Low Absorbance	14
Control Values are outside established values	14
Plate strips slip from holder	14
Plate strips do not fit into holder	14
Specimens give absorbance outside the range of the calibrators	14
Substrate "A" is blue	15
Substrate (A+B) turns blue when mixed	15
After the stop reagent is added, a blue-yellow color remains	15
High absorbance of calibrator causes overflow	15
Stop solution is yellow	15
Before measuring plate more than 30 minutes has lapsed	15
High abosorbance over entire plate	15
Poor Sensitivity	
Color develops quickly	16
Color develops slowly	16
Poor assay reproducibility	16
Edge effects	16
Assay Drift	16
Automation results are different than manual method	16

ips for Good Laboratory Technique	Page
Microplates	17
Micro-pipetting	17
Washing	17
Substrate	17
Conjugates	18
Stop Solution	18
Environment	18

Message from Monobind's president:



Dr. Frederick R. Jerome, CEO

Since its inception in 1977 Monobind, an ISO 13485 certified company, has pioneered in providing diagnostic tools to healthcare professionals at affordable prices. The expertise acquired through years of hard work has allowed Monobind significant immunoassay market penetration. With a distributor network spanning established and emerging worldwide markets in 110+ countries, Monobind looks forward to an even brighter future. As a global brand and leading manufacturer, our company is a major player in the field of diagnostic immunoassay systems.

Monobind's success can be attributed to the high quality and user friendliness of our product line. Customer care and quality consciousness are the hallmarks of Monobind. Close connections with universities and reference labs allow Monobind to provide the technical support to launch new projects in reduced time frames. Our experience in producing quality raw materials, for our own use and for other diagnostic manufacturers, delivers a sustainable competitive advantage built from cost-efficiency. Monobind's history

reveals a commitment to R&D and an impressive record of innovation in basic diagnostic techniques. Our products have helped transform the diagnostic practices from science to art by enabling improved, reliable patient care at an affordable cost.

In recent years, Monobind has integrated its systems to harmonize communications and work between R&D, QC, Manufacturing and Administration. We make continual improvements and have put substantial investment into our website to allow customers to access their account 24 x 7. Customers can go online to place orders, check order status, and view their account history and statements. Monobind's focus and dedication, as well as the market's growing demand for our product line make our many innovations possible.

This includes our totally unique, VAST® immunoassay product line which uses combination calibrators to support detection of multiple analytes in just one kit. VAST® is available in ELISA and CLIA for Anemia, Cancer, Diabetes, Fertility, Prenatal and Thyroid Panels with more to come in the future. Monobind also offers a range of QSure® Controls designed as a compliment to reagents and augmentation of laboratory QC.

Monobind works with leading automated and semi-automated instrument makers to customize equipment for our AccuBind® ELISA and AccuLite CLIA® products. Monobind offers analyzers for both technologies, including NeoEldex®, PrisMatic®, NeoLumax®, LuMatic™, and walkaway systems such as Autoplex® and TITIN® programmed to run our assays. Additionally, we provide 1000s of applications for existing instrumentation from such companies as Awareness Technology, Dynex and Gold Standard Diagnostics. We thank our partners for their collaboration and support, which has allowed our positioning to meet the needs of small-to-large volume testing in clinical labs.

Finally, I wish to thank our customers and distributors for their support and dedication. Their efforts have resulted in Monobind brand recognition in the highly competitive, global immunoassay market. This would not be possible without Monobind's team of skilled professionals who provide the fundamental base for our market success. With our rigorous pursuit of excellence and new product development, Monobind is building a robust future in the biomedical field. We hope to share this vision with you.

Dr. Frederick R. Jerome CEO

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Monobind Products

Our leading edge assay design, backed by substantial, ongoing R&D efforts, represents our fundamental commitment to deliver best-in-class products. To meet this goal several performance characteristics for our products were established and systems implemented throughout the organization to monitor it.

Most saliently, Monobind products must be easy-to-use, high quality, reproducible and stable. These apply to both ELISA and CLIA methodologies.

ELISA (Monobind AccuBind®) method is the mostly widely known and accepted design for diagnostic assays. Most assays have incubation times of 1 hour + 15 minutes with straight forward instructions. Competitive and equilibrium tests can be performed in this format on either antibody or streptavidin plates. Characteristic of this format is the colorimetric analysis using a spectrophotometer.

The second format of Monobind assays is CLIA (Monobind AccuLite®). New and state-of-the-art, CLIA assays offer some advantages compared to the traditional ELISA method. Competitive and equilibrium tests can still be performed in this format on either antibody or streptavidin plates but with shorter incubation times; the common incubation time is 45 minutes + 5 minutes. What truly distinguishes this format from any previous method is its use of a chemiluminescent compound to elicit the results of the reaction with an increased dynamic range and greater low-end sensitivity than ELISA.

Purpose of this Guide

Monobind wishes to bring user-friendly products and has created this guide to help ensure you have the best experience with our products. Knowing more about Monobind products and proper procedures, including common pitfalls is critical in developing your skill. This guide will deepen your understanding and help you perform the assays with excellent results time after time. It offers important information and tips directly from Monobinds' technical staff. You will learn how to interpret results and practice good laboratory technique.

We hope you enjoy this guide and your experience using Monobind products. Should you have any further questions, please contact your dealer or Monobind support staff at: techsupport@monobind.com

Product List :: Monobind Accubing ELISA and Accubing CLIA Kits

ALLERGY & ANEMIA

Ferritin
Folate

sTfR – Soluble Tranferrin Receptor Vitamin B12

 $\mathsf{IgE}-\mathsf{Immunoglobulin}\;\mathsf{E}$

BONE METABOLISM

Calcitonin PTH Intact PTH Whole Vitamin D – 25-OH Total

CANCER MARKERS

AFP – Alpha-Fetoprotein
CA-125 Ovarian Cancer Antigen
CA 15-3 Breast Cancer Antigen
CA 19-9 Pancreatic Cancer Antigen
CEA – Carcinoembryonic Antigen
CEA NG – Carcinoembryonic Antigen

fBhCG XR – Free Beta Human Chorionic Gonadotropin Extended Range

fPSA – Free Prostate Specific Antigen tPSA – Total Prostate Specific Antigen

tPSA XS—Total Prostate Specific Antigen Extra Sensitive

CARDIAC MARKERS

CKMB – Circulating Creatine Kinase (MB) cTnI – Troponin I DIG – Digoxin HS-CRP – High Sensitivity C-Reactive Protein Myoglobin

DIABETES

C-Peptide Insulin Insulin Insulin Rapid

ENDOCRINE

ACTH - Adrenocorticotropic Hormone Aldosterone

INFECTIOUS DISEASE

Anti-H. Pylori IgA Anti-SARS-CoV-2 IgG IL-6 Interleukin 6
Anti-H. Pylori IgG Anti-SARS-CoV-2 S1-RBD IgG PCT - Procalcitonin
Anti-H. Pylori IgM Anti-SARS-CoV-2 IgM
Anti-SARS-CoV-2 IgA D-Dimer

TORCH

 Toxo IgG
 CMV IgG

 Toxo IgM
 CMV IgM

 Rubella IgG
 HSV 1+2 IgG

 Rubella IgM
 HSV 1+2 IgM

GROWTH DEFICIENCY

hGH - Human Growth Hormone

FERTILITY & PRENATAL

AMH
FSH – Follitropin

hCG – Human Chorionic Gonadotropin hCG R - Human Chorionic Gonadotropin Rapid hCG XR – Human Chorionic Gonadotropin Extended Range LH – Lutropin PAPP-A – Pregnancy Plasma Protein-A PRL – Prolactin

PRLs – Prolactin Sequential

NEONATAL

N-T4 – Neonatal Thyroxine
N-T9HP – Neonatal 17-Alpha-Hydroxyprogesterone
N-TSH – Neonatal Thyrotropin

STEROIDS

17OHP - 17-Alpha-Hydroxyprogesterone
17OHP-SI - 17-Alpha-Hydroxyprogesterone Scientific Unit
ANST – Androstenedione
Cortisol
DHEA - Dehydroepiandrosterone
DHEA-S – Dehydroepiandrosterone Sulfate

E2 – Estradiol
Free Testosterone
Progesterone
SHBG – Sex Hormone Binding Globulin
Testosterone
UE3 – Estriol

E1 – Estrone THYROID

FT3 – Free Triiodothyronine

T4 R – Thyroxine Rapid

T4 SBS – Thyroxine Streptavidin

T3 – Triiodothyronine

T8G – Thyroxine-Binding Globulin

T3 SBS – Triiodothyronine Streptavidin

T3 SBS – Triiodothyronine Streptavidin

T3 U – Triiodothyronine Uptake

T5H – Thyrotropin

T3H – Thyrotropin Rapid

THYROID - AUTOIMMUNE

Anti-Tg – Anti-Thyroglobulin Anti-TPO – Anti-Thyroperoxidase

74



ELISA & CLIA Kits



7.

ANEMIA PANEL

Folate & Vitamin B₁₂

CANCER PANEL

AFP, CEA, PSA

DIABETES PANEL

C-peptide & Insulin

FERTILITY & PRENATAL PANAL

AFP, hCG, uE3

hCG, FSH, LH, PRLs

THYROID PANEL

fT3, fT4, TSH

T₃, T₄, TSH



GENERAL IMMUNOASSAY

Multiligand Universal Control

THYROID IMMUNOASSAY

Anti-Tg & Anti-TPO Control TBG Control Tg Control

FERTILITY IMMUNOASSAY

Maternal Control

TUMOR MARKER IMMUNOASSAY

Tumor Marker Control

OTHER

Anti. H-Pylori (IgA,IgG,IgM) Control Custom Matrix Controls "o" Calibrator Matrix & Diluents

Instruments

6.

ANALYZERS & WASHERS

Autoplex® Automated ELISA Analyzer Autoplex® G2 Automated ELISA & CLIA Analyzer Autoplex® G3 Automated ELISA & CLIA Analyzer (2-Plate) Titin-s® Automated ELISA & CLIA Analyzer Titin® Automated ELISA & CLIA Analyzer (2-Plate) PrisMatic® ELISA Plate Analyzer NeoEldex® ELISA Strip Analyzer LuMatic® CLIA Plate Analyzer NeoLumax® CLIA Strip Analyzer Plate Wash Automated Microplate Washer

MONOBIND ASSAY CLASSIFICATION





ASSAY SUMMARY - 1/3

8.

Sa		DIAGNOSTIC AREA ANALYTE	ITEM#	ASSAY	₹	PLATE SYSTEM 'AG STREPT	BINDING COMP SAN	9	STEPS	PS 2-Seau	SAMPLE	SAM- PLE DILUTION	ELISA SUB	ELISA MANUAL INCUBATION TIME	CLIA MANUAL INCUBATION TIME
Frentfin 2500 4 -	_														
IgE 2500 4 - S - S - 25 25 25 S - A+B Folder & Vit B12 7500 889 -								AL			NEMIA				
Felicitie 2800 4 S 5 5	_	1gE	2500	4	1	S	1	Sa	1	28	25	ı	A+B	30+30+15 Min	30+30+5 Min
Folete NITE 7500 8	2	Ferritin	2800	4	ı	S	1	Sa	ı	28	25	1	A+B	30+30+15 Min	30+30+5 Min
Foreite & Vir Bit 2 7800	$^{\circ}$	Folate	7500	œ	1	S	O	ı	1	1	20	1	Sn	45+20 Min	45+5 Min
STEPLY SEGNO 4 - S C - S F S F S F S S S S	4	Folate & Vit B12	7800	880	1	S	O	ı	Н	28	20	-1	Sn	Fol: 45+20 Min Fol: 45+5 Min Vit B10: 45+30+5 Min Vit B10: 45+5 Min V	Fol: 45+5 Min
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Calcitorini	0 9	Vitamin B12	2600	4 σ		n u		, מ	1 1	S S S	0 6	1 1	S 0	45+30+15 Min	30+30+5 Min 45+30+5Min
PTH Mindet 19300 2 Ab - Sa 1E - 50 C Sn		2)))			0	3		5		
PTH hinder & Figure Figure									岁	IETAE	30LISM				
PTH Whole & Intact 10000 2 Ab - Sa 1E - S0 - S0 - Sn Witamin D Direct 10000 2 Ab - Sa 1E - S0 Scach - Sn Witamin D Direct 10000 2 Ab - Sa 1E - S0 Scach - Sn Ar B AF CEA, PSA 8400 3 - S S - Sa 1E - S6 Scach - Ar B CAV125 3000 3 - S S - Sa 1E - S6 Scach - Ar B CAV125 3000 4 - S S - Sa 1E - S6 Scach - Ar B CAV125 4600 3 - S S - Sa 1E - S6 Scach - Ar B CAV126 A600 3 - S S - Sa 1E - S6 Scach - Ar B CAV126 A600 3 - S S - Sa 1E - S S S - SA 1E - Ar B CAV126 A600 3 - S S - Sa 1E - S S S - SA 1E - Ar B CAV126 A600 3 - S S - Sa 1E - S S S - SA 1E - Ar B CAV126 A600 3 - S S - S S - S S IE - S S S - S S S S S S S S S S S S S S	_	Calcitonin	9300	2	Ab	1		Sa	1	1	20		Sn	60+20 Min	45+5 Min
PTH Whole 8 Intact 10000 2 Ab - Sa 1E - 50 each - Sn VItamin D Direct 4400 6 Ab - CANNER - 5 - Sn	∞	PTH Intact	0006	2	Ab	1	ı	Sa	十	1	20	ı	Sn	60+20 Min	45+5 Min
Milamila Dijired 9400 6 Ab . C . 28 25 . Sh A+B	တ	PTH Whole & Intact	10000		Ab	ı	ı	Sa	#	ı	50 each	1	Sn	PTH Intact: 60+20 Min PTH Intact: 45+5 Min PTH Whole: 60+5 Min	PTH Intact: 45+5 Min
AFP 1900 3 - S - S - T - Z - S - A+B CA125 A - S - S - S - S - S - S - S - S - S -	10	Vitamin D Direct	9400	9	Ab	1	O	1	1	28	25	1	Sn	30+30+20 Min	30+30+5 Min
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AFP, CEA, PSA 8400 3 - Sa 1E - 25 each - A+B CA155 3000 3 - S - Sa 1E - 25 - A+B CA199 3000 4 - S - Sa - Sa - A+B CEA/CEA/NXI Gan 1800 3 - S - Sa - Sa - A+B FIRE PSA 10200 4 - S - Sa 1E - Sa - A+B PSAPPSAXS 2100 3 - S - Sa 1E - Sa - A+B PSAPPSAXS 2700 3 - Sa - Sa 1E - Sa - A+B Free PSA 2300 3 - Sa - Sa - Sa - A+B Free PSA	=	AFP	1900	က	,	S	1	Sa	1	1	25	1	A + B	60+15 Min	45+5 Min
CA-125 3000 3 - Sa 1E - 25 - A+B CA 19-9 3900 4 - S - Sa - 25 25 1:21 Sn CA 19-9 3900 4 - S - Sa - 25 25 - A+B FRAPSAXS 10200 4 - S - Sa - 25 25 - A+B Free PSA 2100 3 - S - Sa 1E - 25 - A+B Free PSA 2300 3 - S - Sa 1E - 25 - A+B Free PSA 2300 3 - S - Sa 1E - 25 - A+B HS-CKNB 2900 3 - S - Sa 1E - 25 - A+B <td>2</td> <td></td> <td>8400</td> <td>က</td> <td>ı</td> <td>S</td> <td>1</td> <td>Sa</td> <td>丨</td> <td>1</td> <td>25 each</td> <td>1</td> <td>A+B</td> <td>60+15 Min</td> <td>45+5 Min</td>	2		8400	က	ı	S	1	Sa	丨	1	25 each	1	A+B	60+15 Min	45+5 Min
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HS-CRP 3100 3 - S - Sa 1E - 25 1:200 A+B Myoglobin 3200 3 - S - Sa 1E - 25 - A+B C-peptide 2700 3 - S - Sa 1E - 50 - A+B C-peptide & Insulin 7300 3 - S - Sa 1E - 50 - A+B Insulin Rapid 5800 3 - Sa 1E - 50 - A+B Insulin Rapid 5800 3 - Sa - Sa - Sn - Sn ACTH 10600 2 Ab - Sa - Sa - Sn - Sn Adosterone 10100 9 - Sa - - Sn -	22		3800	7	Ab	1	1	Sa	1	1	25	1	A + B	15+15 Min	15+5 Min
Myoglobin 3200 3 - S - Sa 1E - 25 - A+B C-peptide 2700 3 - S - Sa 1E - 50 - A+B C-peptide & Insulin 7300 3 - S - Sa 1E - 50 - A+B Insulin Rapid 5800 3 - S - Sa 1E - 50 - A+B Insulin Rapid 5800 3 - Sa - Sa 1E - 50 - A+B Insulin Rapid 5800 3 - Sa - Sa - Sn ACTH 10600 2 Ab - Sa 1E - 50 - Sn Adosterone 10100 9 - Sa - Sa 25 - Sn<	23		3100	က	1	S	1	Sa	1E	1	25	1:200	A + B	15+15 Min	15+5 Min
C-peptide 2700 3 - S - Sa 1E - 50 - A+B C-peptide & Insulin 7300 3 - S - Sa 1E - 50 - A+B Insulin 2400 3 - S - Sa 1E - 50 - A+B Insulin Rapid 5800 3 - Sa - Sa 1E - 50 - A+B ACTH 10600 2 Ab - Sa - Sa - Sn Aldosterone 10100 9 - S C - 2S 25 - Sn	24		3200	3	1	S		Sa	1	1	25		+	15+15 Min	15+5 Min
C-peptide & Insulin 2700 3 - S - Sa 1E - 50 each - A+B C-peptide & Insulin 7300 3 - S - Sa 1E - 50 each - A+B Insulin 2400 3 - S - Sa 1E - 50 - A+B Insulin Rapid 5800 3 - S - Sa 1E - 50 - Sn ACTH 10600 2 Ab - Sa 1E - 50 - Sn Aldosterone 10100 9 - S C - 2S 25 - Sn										BETE	S				
C-peptide & Insulin 7300 3 - S - Sa 1E - 50 each - A+B Insulin 2400 3 - S - Sa 1E - 50 - A+B Insulin Rapid 3 - S - Sa 1E - 50 - Sn ACTH 10600 2 Ab - Sa 1E - 50 - Sn Aldosterone 10100 9 - S C - 2S 25 - Sn	25		2700	က	1	S	1	Sa		1	20		A+B	120+15 Min	60+5 Min
Insulin Rapid 2400 3 - S - Sa 1E - 50 - A+B Insulin Rapid 5800 3 - S - Sa 1E - 50 - Sn ACTH 10600 2 Ab - Sa 1E - 50 - Sn Aldosterone 10100 9 - S C - 2S 25 - Sn	26			က	ı	S	ı	Sa	1	1	50 each	ı	A+B	120+15 Min	60+5 Min
Insulin Rapid 5800 3 - S - Sa 1E - 50 - Sn	27		2400	က	1	S	ı	Sa	甲	1	20	ı	A+B	120+15 Min	60+5 Min
ACTH 10600 2 Ab Sa 1E - 50 - Sn Aldosterone 10100 9 - S C 2S 25 - Sn	28		5800	3	1	S	1	Sa	1	1	20	1	Sn	60+15 Min	NA
ACTH 10600 2 Ab Sa 1E - 50 - Sn Aldosterone 10100 9 - S C 2S 25 - Sn										O	Z				
Aldosterone 10100 9 - S C 2S 25 - Sn	29	ACTH	10600		Ab	1	-	Sa	1	1	20	1	Sn	60+20 Min	45+5 Min
	30	Aldosterone	10100		1	S	O	ı	1	28	25	1	Sn	15+45+20 Min	15+45+5 Min



ASSAY SUMMARY - 1/3

CLIA Manual	INCUBATION LIME
ELISA MANUAL	INCUBATION LIME
ELISA	
SAM- PI F	DILUTION
SAMPLE)]]
STEPS	1-Eaul 2-Seau
BINDING	COMP SAND
PLATE	AB/AG STREPT
ASSAY	Т
ITEM#	
DIAGNOSTIC	AKEAANALYIE

	-													
CLIA MANUAL INCUBATION TIME		60+5 Min	45+5 Min	20+5 Min	٧X	hCG:20+5 Min	LH/FSH:45+5 Min	PRLs:30+30+5 Min	45+5 Min	45+5 Min	30+30+5 Min	45+5 Min	30+30+5 Min	45+5 Min
ELISA MANUAL INCUBATION TIME		60+20 Min	60+15 Min	20+15 Min	10+5 Min	hCG:20+15 Min	LH/FSH:60+15 Min LH/FSH:45+5 Min	PRLs:30+30+15 Min PRLs:30+30+5 Min	60+15 Min	60+15 Min	30 + 30 +20 Min	60+15 Min	30+30+15 Min	60+15 Min
ELISA SUB		A + B	A + B	A + B	SC	A + B			A + B	A + B	Sn	A + B	A + B	A + B
SAM- PLE DILUTION		1	1	1	1	1			1	1	1	1	1	1
SAMPLE VOL µl	FERTILITY & PRENATAL	50	25	25	25	hCG/PRLs: 25	LH/FSH: 50		20	20	10	25	25	25 each
PS 2-Sequ	~ □	ı	ı	ı	1	28			ı	ı	28	ı	28	
STEPS 1-Equil 2-Sequ		7	円	Ή	円	1			円	7		Ή		7
	FER	Sa	Sa	Sa	Sa	Sa			Sa	Sa	Sa	Sa	Sa	Sa
BINDING COMP SAND			1		1				1	1	1		1	O
TE 'EM Strept			S	S		S			S	S		S	S	S
PLATE SYSTEM AB/AG STREPT		Ab	1	1	Ab				1	1	Ab		ı	1
ASSAY		7	က	က	2	3 & 4			က	က	9	က	4	3 & 7
ITEM#		9700	800	8800	3300	8300			400	009	12600	200	4400	8500
DIAGNOSTIC AREA ANALYTE		AMH	hCG	33 hCG Ext. Range	hCG Rapid	hCG, FSH, LH,	PRLs		FSH	=	PAPP-A	PRL	PRL Sequ.	AFP, hCG, uE3
		31	32	33	34	35			36	37	38	33	40	4

	45+5 Min		45+30+5 Min	45+30+5 Min	45+30+5 Min
	60+15 Min		60+30+15 Min	60+30+15 Min	60+30+15 Min
	A+B		A+B	A+B	A+B
١,	1	S	1:100	1:100	1:100
	20	ECTIOUS DISEASES	20	25	20
ו חחח ר	······	ONS DI	2S	2S	2S
7 / /	1	CTIC	1	1	1
ノとり	Sa	E E	Sa	Sa	Sa
			1	1	1
	S		S	S	S
			1	1	1
	က		_	_	_
	1700		1600	1400	1500
	hGH		43 Anti-H. Pylori IgA 1600	44 Anti-H. Pylori IgG 1400	45 Anti-H. Pylori IgM 1500
	42		43	44	45 /

						IN FIE	CTIO	US DI	VFECTIOUS DISEASES	S			
43 Anti-H. Pylori IgA 1600	1600	_	1	S	,	Sa	1	2S	20	1:100	A+B	60+30+15 Min	45+30+5 Min
44 Anti-H. Pylori IgG 1400	1400	_	1	S		Sa	1	2S	25	1:100	A + B	60+30+15 Min	45+30+5 Min
45 Anti-H. Pylori IgM 1500	1500	_	1	S		Sa	1	28	20	1:100	A+B	60+30+15 Min	45+30+5 Min
46 Anti-SARS-CoV-2 lgA 11800	11800	10	Ag	1	,	Sa	1	2S	100	1:100	Sn	30+30+15 Min	30+30+5 Min
47 Anti-SARS-CoV-2 lgG 11900	11900	10	Ag	1	,	Sa	1	2S	100	1:100	Sn	30+30+15 Min	30+30+5 Min
48 Anti-SARS-CoV-2	12500	10	Ag	1	,	Sa	1	2S	100	1:100	Sn	30+30+15 Min	ΑN
S1-RBD lgG													
49 Anti-SARS-CoV-2 IgM 11700	11700	10	Ab	1		Sa		2S	100	1:100	Sn	30+30+20 Min	30+30+5 Min
50 D-Dimer	12000	4	Ab	1	ı	Sa	1	28	25	ı	A+B	20+20+15 Min	20+20+5 Min
51 IL-6	12600	7	Ab	1	,	Sa	1	1	20	ı	Sn	80 Min	50 Min
52 PCT - Procalcitonin 9200	9200	7	Ab	1	O	1		2S	50	ı	Sn	30+15 Min	30+5 Min

	,	ı	1	1	1	ı	1	1
	75 Min	75 Min	75 Min	75 Min	75 Min	75 Min	75 Min	75 Min
	SC	SC	SC	Sn	SC	Sn	SC	Sn
	1:100	1:100	1:100	1:100	1:100	1:100	1:100	1:100
_	100	100	100	100	100	100	100	100
TORC	2S	28	28	2S	2S	2S	2S	28
	ı	1	1	1	1	1	1	1
	Sa	Sa	Sa	Sa	Sa	Sa	Sa	Sa
	ı	1	1	1	1	1	1	1
	ı	1	1	1	1	1	ı	1
	Ag	Ag	Ag	Ag	Ag	Ag	Ag	Ag
	10	10	10	10	10	10	10	10
	6100	6200	0089	6400	0099	0099	0029	0089
	Toxo IgG	Toxo IgM	Rubella IgG	Rubella IgM	CMV IgG	CMV IgM	HSV 1+2 lgG	HSV 1+2 IgM
	23	42	22	99	22	28	29	09

						NEC	NATA	HT	YROI	D & AD	DRENAL			
Ż	-TSH	3400	4		S	,	Sa	,	2S	DBS		Sn	90+45+45 Min (or OvrNt)	ΑN
_	4-T4	2600	9	Ab	1	O	1	1	2S	DBS	1	Sn	90+45+15 Min	ΑN
ż	N-170HP	5500	_	,	S	O	,	十	,	DBS	ı	SC	30+90+15 Min Or 120+15 Min	ΑN
Z	I-TBG	8900	6	1	ഗ	O	1	1	28	DBS	ı	SC	60+30+30+15 Min (or OverNt)	ΑN



11.



ASSAY SUMMARY - 1/3

CLIA MANUAL INCUBATION TIME	
ELISA MANUAL Incubation TIME	
ELISA SUB	
SAM- PLE DILUTION	
SAMPLE VOL µl	
STEPS 1-Εαυιι 2-Sεαυ	
BINDING COMP SAND	
PLATE SYSTEM AB/AG STREPT	
ASSAY TYPE	
ITEM#	
DIAGNOSTIC ITEM# ASS. AREAANALYTE TYF	

	,														Щ,
CLIA Manual Incubation TIME			45+5 Min	45+5 Min	60+5 Min	30+5 Min	45+5 Min	30+60+5 Min	45+5 Min	60+5 Min	45+5 Min	45+5 Min	30+5 Min	45+5 Min	45+5 Min
ELISA MANUAL INCUBATION TIME			60+20 Min	60+15 Min	60+20 Min	30+15 Min	45+20 Min	30+90+20 Min	60+15 Min	60+20 Min	60+15 Min	30+15 Min	30+15 Min	60+15 Min	60+15 Min
ELISA SUB			Sn	A + B	Sn	A + B	Sn	Sn	A + B	Sn	Sn	SC	A + B	A+B	A+B
SAM- PLE DILUTION			ı	1	1	1	1	ı	1	1	1	1	1	1	1
SAMPLE VOL µl		DS	25	25	25	10	25	25	25	25	25	25	25	10	20
STEPS 1-EQUIL 2-SEQU		STEROIDS				1		2S	1		1	1	1	1	
STI 1-Equil		ST	甲	퓌	Ħ	刊	刊	1	刊	퓌	7	刊	4	十	刊
BINDING COMP SAND								1			1		Sa		
BINC			ပ	O	O	O	O	O	O	O	O	O	1	O	O
PLAIE SYSTEM AB/AG STREPT			1	တ	တ	S	1	တ	S	တ	တ	S	တ	S	
			Ab			1	Ab	1	1		1	1	1	1	Ab
ASSAY TYPE			2	7	7	7	2	<u></u>	7	7	7	7	က	7	7
ITEM#			12400	3600	7400	5100	10300	4900	2000	4800	5200	0066	9100	3700	5300
DIAGNOSTIC AREA ANALYTE			ANST	Cortisol	DHEA	DHEA-S	П	E2	uE3	Progesterone	170HP	170H-SI	SHBG	Testosterone	77 Free Testosterone 5300
	I		65	99	29	89	69	20	71	72	73	74	75	9/	77

																_		
	45+5 Min	AN	45+5 Min	45+5 Min		45+5 Min	60+5Min		45+5 Min	45+5 Min	ΝΑ	45+5 Min	45+5 Min	30+5 Min	Hr + 1 Hr + 15 Min or 1 Hr + 1 Hr + 5 Min or	1.5 Hr + 1.5 Hr + 5 Mir	45+5 Min	30+5
	60+15 Min	30+15 Min	60+15 Min	60+15 Min		60+15 Min	60+15 Min		60+15 Min	60+15 Min	30+15 Min	60+15 Min	60+15 Min	30+15 Min	1 Hr + 1 Hr + 15 Min or	2 Hr + 2Hr + 15 Min 1.5 Hr + 1.5 Hr + 5 Min	60+15 Min	30+15 Min
	A + B	Sn	A+B	A+B		A+B	Sn		A+B	A+B	A+B	A+B	A+B	A+B	Sn		A+B	A+B
	١.	1	,	ı		,	1		,	1	,	,	ı	,	1		,	ı
2	50	20	20	T3/TSH:	50 T4: 25	20	FT3: 50	FT4/TSH:25	25	25	20	25	20	10	20		20	25
THVDOIL	-	1	ı	1		,	1		1	1	•	ı	1	1	2S		1	1
Ļ	甲	1	1	丨		刊	爿		目	日	刊	丨	丨	日	ı		刊	1
	-	1	ı	Sa		,	Sa		ı	1	,	ı	1	1	Sa		Sa	Sa
	O	O	O	O		O	O		O	O	O	O	O	O			1	1
	-	1	S	S		,	S		1	1		S	1	S	S		S	S
	Ab	Ab	ı	ı		Ab	1		Ab	Ab	Ab	ı	Ab	1	ı		1	ı
	2	22	7	7 & 3		2	7 & 3		22	2	2	7	22	7	4		က	က
	100	11200	8100	8000		1300	2000		200	200	11100	8200	1200	3500	2200		300	0009
	Т3	T3 Rapid	T3 SBS	T3, T4 & TSH		Free T3	FT3, FT4 & TSH		T3U	T4	T4 Rapid	T4 SBS	Free T4	TBG	Tg		TSH	TSH Rapid
	78	6/	80	81		82	83		8	85	98	87	88	83	90		91	92

1000 1 - Sa - 2S								THYR	OID	AUTO	JIMMU	IJ.			
7700	Anti-	Lg	1000	_	ı	တ	1	Sa	ı	28	20	1:100	A+B	60+30+15 Min	30+30+5 Min
- 001	Anti-TPO	-PO	1100	_	1	S	1	Sa	1	2S	25	1:100	A+B	60+30+15 Min	30+30+5 Min

					ĺ
(ey		Competitive 1E 1 Step Equilibrium ELISA Substitute '00' with '25' followed by '-300' and A, B, D, E (for pack size)	Substitute '00' with '75' followed by '-300' and A, B, D, E (for pack size)		
ation K	ITEM#	ELISA	CLIA		
Abbreviation Key	PS	1 Step Equilibrium	2S 2 Step Equilibrium CLIA	ı	
	STEPS	1E	28	1	
	ING	Competitive	Sandwich	-	
	BINDING	C	Sa	1	
	E SYSTEM	Antibody	Antigen	Streptavidin	
	PLAT	Ab	Ag	S	

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TIPS FOR INTERPRETING ASSAY RESULTS

BAD DUPLICATION.

Possible Cause	Solution
Bubbles in wells.	Use a pin or needle to burst.
Dispensing error.	Check dispensing instrument.
Fingerprints/cell obstruction	Clean bottom surface of plate with DI water and dry
	before measuring again.
Improper wash step.	Ensure all wash equipment is working properly and wells are filled completely but do not overflow.

HIGH BACKGROUND.

Possible Cause	Solution
Insufficient wash step.	Repeat wash step. Ensure wells are filled completely
	but do not overflow. Consider increase in number of
	wash steps and soak time in between washes.
Contamination of reagents.	Run the test again with fresh reagents making sure to
	avoid contamination during dispensing.

LOW ABSORBANCE.

Possible Cause	Solution
Combined Substrate (A+B) not prepared correctly.	Prepare substrate reagent by mixing the correct volumes.
Contamination of reagents.	Run the test again with fresh reagents.
Temperature of the room may be lower than 20°C.	Increase the incubation time of the substrate but do not exceed 30 minutes.
Test volume is low.	Check pipette equipment for proper fit and calibration.
Increased plate moisture.	Ensure unused wells are sealed properly in pouch with desiccant and marked with open date.
Powerful wash step.	Reduce pressure of wash apparatus.
Analyzed test using incorrect wavelength.	Check that the equipment read wavelength is set to the same specified in the assay protocol.

CONTROLS VALUES ARE OUTSIDE OF ESTABLISHED VALUES.

Possible Cause	Solution
Contamination of controls.	Run the test again with new controls.
Contamination of calibrators.	Run the test again with new calibrators.
Incorrect control values.	Go to website for updated values.

PLATE STRIPS SLIP FROM HOLDER.

Possible Cause	Solution
Improper handling of plate.	When tapping, firmly grasp holder on grip marks.

PLATE STRIPS DO NOT FIT INTO HOLDER.

Possible Cause	Solution
Improper alignment of strips in holder.	Rotate strips 180° in holder.
Incorrect holder for strip design.	Use holder for strip design.

SPECIMENS GIVE ABSORBANCE OUTSIDE THE RANGE OF THE CALIBRATORS.

	Possible Cause	Solution
	Concentration of specimen is too high.	Dilute specimen with the "o" calibrator and run the
		assay again.

SUBSTRATE "A" IS BLUE.

Possible Cause	Solution
The substrate is contaminated.	Obtain fresh Substrate "A".

SUBSTRATE (A+B) TURNS BLUE WHEN MIXED.

Possible Cause	Solution
The substrate is contaminated.	Obtain fresh Substrate "A" and "B".

AFTER THE STOP REAGENT IS ADDED, A BLUE-YELLOW COLOR REMAINS.

Possible Cause	Solution
This is a normal observation; the force of the stop reagent during addition did not cause sufficient mixing of the reagents.	Shake the plate, by hand or plate mixer, in order to sufficiently mix the reagents and a uniform yellow color results.

HIGH ABSORBANCE OF CALIBRATOR CAUSES OVERFLOW.

Possible Cause	Solution
The temperature of the room may be greater than 30°C	Do not shake, rotate, or heat the plate during incuba-
or the plate was rotated during incubation.	tion. May measure the absorbance at 405nm because
	of the lower extinction constant.
Incubation time of substrate or reagent(s) step was	May measure the absorbance at 405nm because of the
longer than specified.	lower extinction constant.
The higher absorbance is not detrimental to the test but	recults may be limited by the analysis instrument

STOP SOLUTION IS YELLOW.

Possible Cause	Solution
Contamination of reagent.	Obtain fresh stop solution.

BEFORE MEASURING PLATE MORE THAN 30 MINUTES HAS LAPSED.

Possible Cause	Solution
Technician or instrument error.	Run the test again.
End product of enzyme reaction may precipitate and	Run the test again.
cause errors.	

HIGH ABSORBANCE OVER ENTIRE PLATE.

Possible Cause	Solution
Insufficient wash step.	Repeat wash step. Ensure wells are filled completely
	but do not overflow.
Contamination of substrate reagent.	Obtain fresh reagents and check pipette for proper
	dispensing.

POOR SENSITIVITY.

Possible Cause	Solution
Incorrect volume of reagent(s) added.	Check pipette for proper dispensing.
Time lapse between subsequent steps was longer than	Be sure to follow the test specifications as closely as
recommended.	possible to ensure accurate and reproducible results.

4. 15.





TIPS FOR INTERPRETING ASSAY RESULTS cont.

COLOR DEVELOPS QUICKLY.

Possible Cause	Solution
Contaminated reagents/equipment.	Ensure all equipment and reagents are free of contaminants then run the test again.

COLOR DEVELOPS SLOWLY.

Possible Cause	Solution
Reagents/samples are not at room temperature.	Do not run the assay until all reagents/samples are at
	room temperature.
Contamination of reagents/samples.	Only use the materials specified to avoid any cross
	reactions that may limit the reagents' activity within
	the assay.

POOR ASSAY REPRODUCIBILITY.

Possible Cause	Solution
Insufficient wash step.	Be sure that hand wash technique is consistent. If
	using an automatic plate washer, perform regular
	maintenance to ensure the machine is running properly
	and is clean.
Incubation temperature.	Try to maintain a consistent environment especially in
	regards to temperature. Refer to protocol for optimum
	reaction conditions.
Protocol Variations.	Be sure to follow the written protocol as closely as
	possible to limit the variation that may be introduced
	by the environment, equipment, and technician.

EDGE EFFECTS.

Possible Cause	Solution
Temperature of reaction vessel is uneven.	Maintain a consistent environment around the reaction
	vessel paying close attention to the temperature.

ASSAY DRIFT.

Possible Cause	Solution
Interruption(s) during assay set-up.	Set-up of assays should be free of interruptions and be done in the shortest time possible while maintaining good technique. To prevent any delays/interruptions while setting up an assay prepare all reagents and samples prior to beginning.
Reagents/samples are not at room temperature.	Dispense samples/reagents only when ALL are at room temperature to prevent variation of temperature throughout the plate wells.

AUTOMATION RESULTS ARE DIFFERENT THAN MANUAL METHOD.

Possible Cause	Solution
Automation application is not up to date.	Most current application for automation method should
	be downloaded from the website.

TIPS FOR GOOD LABORATORY TECHNIQUE

Microplates

The microplates are the scaffold on which the assay reaction proceeds so the correct type of plate is vital. When preparing for an assay determine whether an antibody or streptavidin plate will be required. Do not open and use any plate until it has reached room temperature. Once the pouch is opened, date the package, remove desired amount of strips, and seal remaining strips in the dated microplate pouch. Place the strips in the correct holder and place on a level surface for the remaining steps in assay setup. The strips should be inspected for any defects and should be cleaned of any residue using DI water.

Micro-pipetting

The volume used in assays is very small so it is extremely important to calibrate the pipettes accurately and in accordance with the time frame suggested by the manufacturer. In addition to calibration of the pipetting instrument, be sure to use the correct tips required for the specific pipette; the tips should consistently draw/ dispense the same volume and fit properly on the end of the pipette. To prevent contamination of any reagents used, change the pipette tip between dispensing of different samples/reagents. Further precaution can be taken by transferring only the amount of a sample/reagent needed to a separate container before dispensing. Two modes of dispensing can be performed, reverse and forward mode. Reverse mode is most recommended to use when dispensing controls/samples that need to be precise. Forward mode may be used when dispensing reagents that are in excess but this method is still not as accurate as the reverse mode.

Washing

The wash step is performed in order to remove the excess reagents from the well that now contains bound components. This step can either be done manually or with an automatic plate washer. The end result should be the same irrespective of the wash method used. The wash solution should flood each well 3-5 times and left to soak for 5-30 seconds between each wash, depending on the assay and the equipment being used. Many factors are taken into consideration when a wash solution's components are chosen so be sure to follow the suggested preparation. Here are some additional things to consider depending on the wash method of choice:

Manual – Fill each strip with the same volume of wash solution and keep the time it takes for each strip to be washed the same. No air bubbles should be trapped in the wells and the wells should not be overflowed with wash solution.

Plate Washers – Program the desired wash cycles and soak times for reproducible wash steps. Perform regular maintenance on the washers to ensure accurate dispensing volumes and that the wash heads are clean.

Substrate

In the line of Monobind products two different types of substrate exist. There are single component substrates and two component substrates. Depending on the assay different substrates may be used; Make sure to check the protocol and the components at hand for the correct reagents to use. Single component substrates are ready to use after attaining room temperature. Two component substrates need to be prepared/mixed prior to dispensing. Always check the substrates for contamination prior to use which is most often indicated by a blue coloration. Incubation time of the substrate is a vital point in the assay and time constraints should be kept according to those indicated in the protocol.

16.





B

Conjugates

The conjugates used for each assay differ so be sure to use the correct conjugate for the assay. Storage of this component according to specifications is important because the storage and expiration of these components are established based on stability studies. When a dilution is required, only make the amount necessary for the immediate need. Before dispensing conjugates, they should be at room temperature and then stored at the specified conditions shortly after use.

TIPS FOR GOOD LABORATORY TECHNIQUE

Stop Solution

The last step of several assays involves the use of a stop solution. This component does exactly that, it stops the reaction from proceeding any farther. The solutions commonly used are acids at different molar concentrations. When running several assays always use the stop solution specificied in the protocol for that assay. Once the stop solution has been added to the reaction mixture, there is a limited time period to analyze the plate and obtain the acceptable results. Reading results of the plate after 30 minutes has passed since addition of stop solution will result in data which may not be used with confidence.

Environment

To ensure reproducible results run all assays in a stable environment. An ideal stable temperature is one with little to no air drafts. In tropical or cold climates, it is recommended that labs regulate the room temperature (20 - 25 °C) to ensure proper reactions. Vibrations/rotations will also affect the test so these should be avoided. The surrounding environment is not the only of concern; the immediate environment contained in the plate holder is also critical.

All plates, samples/controls, conjugates, and other reagents should only be used when at room temperature. This will minimize any variations in temperature across the plate. A cover should always be placed on top to prevent any contamination or evaporation during incubation times. The main goal is to keep the environment as stable and consistent as possible.

Clinical Laboratories

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