

RANDOX

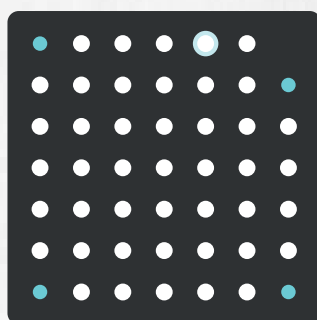
EVIDENCE MULTISTAT BIOCHIP ARRAY TECHNOLOGY ANALYZER Clinical Diagnostics



9x9mm Biochip

Key:

- Discrete test region
- Quality control spot



48 Tests / Biochip



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TECHNICAL SNAPSHOT

Analyser Description	Fully automated Biochip Array analyser
Dimensions	585 (H) × 535 (D) × 570 (W) mm
Weight	48kg (106lbs)
Biochip Format	Cartridge based system – assay reagents sealed in a cartridge
Connectivity	LIMS uni-directional interface
Data Back-up Methods	Data export functionality
Environment	Operating temperature 18°C-32°C, <80% Relative humidity, <2000m Altitude, Pollution: Degree 2 (IEC 664) Stable workbench required
Measurement Principal	Competitive techniques with chemiluminescent reaction
Operator Interface	15.6" touch screen
Peripherals	Barcode scanner Printer can be connected (not included)
Power Requirements	Input Voltage 110-240v
Sample Loading	Single cartridge loading bay
Sample Volume	170-200µl (kit dependent)
Time to Result	17 minutes - 30 minutes (kit dependent)

The Analyser

- 1 Touch Screen**
A large touchscreen interface allows the user to easily navigate through the analyser and view results.
- 2 Tip Cartridge Drawer**
The user will insert the prefilled tip cartridge here prior to testing.
- 3 Reagent Cartridge Drawer**
The user will insert the reagent cartridge here prior to testing.
- 4 2 x USB Ports**
USB Ports allow the user to add accessories, for example, barcode scanner, printer, or USB to export test results.

The Cartridge

- 1 Well One**
Cut-off material is added (qualitative kits) or adjuster/QC/sample is added (quantitative kits).
- 2 Well Two**
Adjuster/QC/sample is added.
- 3 Foil Cover & Fluid Reservoirs**
All additional fluids required are stored here.
- 4 Biochip Wells**
Two biochips are located here. Each biochip has up to 48 discrete testing regions.

Three Step Process



Prepare sample & add to cartridge



Load reagent & tip cartridge to MultiSTAT



Press Play



Rapid Screening

Minimal sample preparation is required, and results for 2 samples can be provided in under 30 minutes, allowing for quicker clinical decision and timely patient management

RANDOX Toxicology Test Menu (Kits for Forensic Use)

ToxPlex

Cat. No. EV4455

Time to Result: Under 30 minutes

Matrix: Urine*

Sample Input: Dual Sample

Results Type: Semi-Quantitative

*ToxPlex Blood Coming Soon

Assay	Min Cut-Off	Max Cut-Off	Assay	Min Cut-Off	Max Cut-Off
6-MAM	10ng/mL	N/A	Meprobamate	500ng/mL	N/A
Acetaminophen	50µg/mL	N/A	Methadone	200ng/mL	500ng/mL
Amphetamine	200ng/mL	1000ng/mL	Methamphetamine	200ng/mL	1000ng/mL
Barbiturates	200ng/mL	300ng/mL	Methaqualone	200ng/mL	300ng/mL
Benzodiazepines 1	100ng/mL	300ng/mL	Opiate	200ng/mL	2000ng/mL
Benzodiazepines 2	100ng/mL	N/A	Oxycodone	100ng/mL	500 ng/mL
Buprenorphine	1ng/mL	10ng/mL	PCP	25ng/mL	N/A
BZG/Cocaine	100ng/mL	300ng/mL	Pregabalin	1000ng/mL	2000ng/mL
Creatinine (Urine Only)	20mg/dL	N/A	Propoxyphene	300ng/mL	N/A
Dextromethorphan	20ng/mL	N/A	Salicylates	50µg/mL	N/A
EtG	1000ng/mL	N/A	TCA	150ng/mL	1000ng/mL
Fentanyl	1ng/mL	10 ng/mL	THC	20ng/mL	50ng/mL
Haloperidol	50ng/mL	N/A	Tramadol	100ng/mL	300 ng/mL
Ketamine	100ng/mL	300ng/mL	Zolpidem	20ng/mL	-
MDMA	100ng/mL	500ng/mL	-	-	-

Blood

Cat. No. EV4195

Time to Result: 23 minutes

Assay	Cut-Off	Assay	Cut-Off
6-MAM	10 ng/ml	Methadone	10 ng/ml
AB-CHMINACA	5 ng/ml	Methamphetamine	50 ng/ml
AB-PINACA	2 ng/ml	Opiates	80 ng/ml
Amphetamine	50 ng/ml	Oxycodone	10 ng/ml
BZG (Cocaine Metabolite)	25 ng/ml	PCP (Phencyclidine)	5 ng/ml
Barbiturates	50 ng/ml	Pregabalin	1000 ng/ml
Benzodiazepines	20 ng/ml	TCA (Tricyclic Anti-depressants)	60 ng/ml
Buprenorphine	2 ng/ml	THC (Cannabinoids)	10 ng/ml
EtG (Ethyl Glucuronide)	500 ng/ml	Tramadol	5 ng/ml
Fentanyl	1 ng/ml	α-PVP	5 ng/ml

Urine I

Cat. No. EV4193

Time to Result: 19 minutes

Assay	Cut-Off	Assay	Cut-Off
6-MAM	10 ng/ml	JWH-018 (Synthetic Cannabinoids)	20 ng/ml
AB-PINACA	2.5ng/ml	Methadone	300 ng/ml
Amphetamine	200 ng/ml	Methamphetamine	200 ng/ml
BZG (Cocaine Metabolite)	150 ng/ml	Opiates	200 ng/ml
Barbiturates	200 ng/ml	Oxycodone	50 ng/ml
Benzodiazepines I	150ng/ml	TCA (Tricyclic Anti-depressants)	150ng/ml
Benzodiazepines II	150ng/ml	THC (Cannabinoids)	20 ng/ml
Buprenorphine	1 ng/ml	Tramadol	5 ng/ml
Creatinine	20mg/dl	UR-144 (Synthetic Cannabinoids)	10 ng/ml
EtG (Ethyl Glucuronide)	750 ng/ml	α-PVP	5 ng/ml
Fentanyl	2 ng/ml	-	-

Urine II

Cat. No. EV4292

Time to Result: 19 minutes

Assay	Cut-Off	Assay	Cut-Off
6-MAM	10ng/ml	Methadone	300ng/ml
AB-CHMINACA	10ng/ml	Methamphetamine	500ng/ml
AB-PINACA	3ng/ml	Opiates	300ng/ml
Amphetamine	500ng/ml	PCP (Phencyclidine)	25ng/ml
BZG (Cocaine Metabolite)	300ng/ml	Pregabalin	300ng/ml
Barbiturates	200ng/ml	TCA (Tricyclic Anti-depressants)	150ng/ml
Benzodiazepine	200ng/ml	THC (Cannabinoids)	50ng/ml
Creatinine	20mg/dl	Tramadol	20ng/ml
EtG (Ethyl Glucuronide)	750ng/ml	UR-144 (Synthetic Cannabinoids)	10ng/ml
Fentanyl	2ng/ml	α-PVP	5ng/ml

Oral Fluid II

Cat. No. EV4279

Time to Result: 17 minutes

4-fold dilution applied by the collection device has been accounted for in the cut-off material provided

Assay	Cut-Off	Assay	Cut-Off
6-MAM	3 ng/ml	LSD	1.5 ng/ml
Amphetamine	60 ng/ml	Methadone	5 ng/ml
BZG (Cocaine Metabolite)	30 ng/ml	Methamphetamine	70 ng/ml
Barbiturates	60 ng/ml	Opiates	15 ng/ml
Benzodiazepines I	15 ng/ml	Oxycodone	10 ng/ml
Benzodiazepines II	15 ng/ml	PCP (Phencyclidine)	7 ng/ml
Buprenorphine	1.5 ng/ml	THC (Cannabinoids)	5 ng/ml
Fentanyl	1.5 ng/ml	Tramadol	5 ng/ml
JWH-018 (Synthetic Cannabinoids)	20 ng/ml	UR-144 (Synthetic Cannabinoids)	25 ng/ml
Ketamine	65 ng/ml	α-PVP	2.5 ng/ml

Critical Care Biochips

Hyperinflammation Biochip Markers	Sensitivity	Measuring Range		Measuring Range
		5th Percentile	95th Percentile	
Interleukin-1 beta (IL-1β)	1.71 pg/mL	N/A	1.8846	0 - 250 pg/mL
Interleukin-2 (IL-2)	9.83 pg/mL	N/A	15.0595	0 - 1000 pg/mL
Interleukin-6 (IL-6)	2.87 pg/mL	N/A	13.1579	0 - 500 pg/mL
Interferon gamma (IFN-γ)	10.40 pg/mL	N/A	6.8962	0 - 500 pg/mL
Tumour Necrosis Factor alpha (TNF-α)	20.11 pg/mL	N/A	10.3543	0 - 1000 pg/mL
Monocyte Chemoattractant Protein-1 (MCP-1)	11.03 pg/mL	33.0225	91.1331	0 - 500 pg/mL
Interleukin-15 (IL-15)	9.46 pg/mL	N/A	19.8822	0 - 1000 pg/mL
Ferritin	7.42 ng/mL	N/A	91.3121	0 - 1000 ng/mL
D-Dimer	35.34 ng/mL	53.0993	397.3078	0 - 4500 ng/mL

Acute Respiratory Distress Syndrome Biochip Performance

Marker	Range
Soluble Tumour Necrosis Factor Receptor 1 (sTNFR1)	0 - 25 ng/mL
Interleukin-6 (IL-6)	0 - 1600 pg/mL

Neurovascular Dysfunction Markers	Measuring Range
Glutathione S-transferase Pi (GSTPi)	0 - 200 ng/mL
Parkinson Disease Protein 7 (PARK7)	0 - 100 ng/mL
Nucleoside Diphosphate Kinase A (NDKA)	0 - 250 ng/mL
Glial Fibrillary Acidic Protein (GFAP)	0 - 100 ng/mL
Fatty Acid Binding Protein 3 (FABP3)	0 - 150 ng/mL
Interleukin-6 (IL-6)	0 - 500 pg/mL
Soluble Tumour Necrosis Factor Receptor 1 (sTNFR1)	0 - 25 ng/mL
D-Dimer	0 - 5000 ng/mL

Kidney Dysfunction Markers	
sTNFR1	sTNFR2
H-FABP	Midkine

Clinical Drug Testing Analytes		
Acetaminophen	Fentanyl	PCP (Phencyclidine)
Amphetamine	Haloperidol	Pregabalin
Barbiturates	Ketamine	Propoxyphene
Benzodiazepines 1 (Oxazepam)	MDMA	Salicylates
Benzodiazepines 2 (Clonazepam)	Meprobamate	TCA (Tricyclic Antidepressants)
Buprenorphine	Methadone	THC (Cannabinoids)
BZG/Cocaine	Methamphetamine	Tramadol
Creatinine (Urine only)	Methaqualone	Zolpidem
Dextromethorphan	Opiate	6-MAM
EtG (Ethyl Glucuronide)	Oxycodone	Xylazine (Blood Only)