



Product Catalogue

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Better Science, Safer Food

With over 35 years of experience in the diagnostic market, Randox Food Diagnostics continue to transform the landscape of conventional screening by developing revolutionary, high quality products.

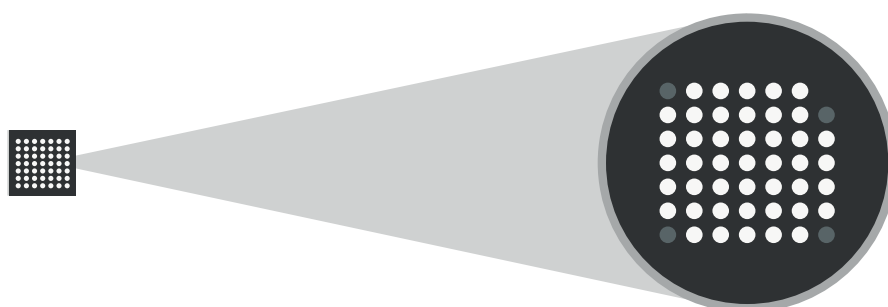
Randox Food Diagnostics is dedicated to improving the global food safety chain. Our versatile range of kits includes an extensive list of drug residue ELISAs and Biochip Arrays, as well as our dedicated enzymatic kits for the honey industry.

Within Randox Food Diagnostics we provide remarkable tools for the screening of antimicrobials, growth promoting hormones and drugs of abuse in animals and produce, offering superb limits of detection and simple sample preparations. Randox Food Diagnostics has an extensive and expanding range consisting of 26 ELISAs and 22 multiplex screening platforms. Our comprehensive range and trusted screening solutions are intertwined with continually improving the standards of global food safety, ensuring that better science means safer food.



Biochip Array Technology

Randox Biochip Array Technology (BAT) will revolutionise your screening practices. Designed to work across a wide variety of matrices, BAT uses micro spotting techniques to create an assay that can detect and provide semi-quantitative results for up to 44 residues from a single sample. There is no complicated sample preparation and an assay protocol designed by scientists, for scientists.

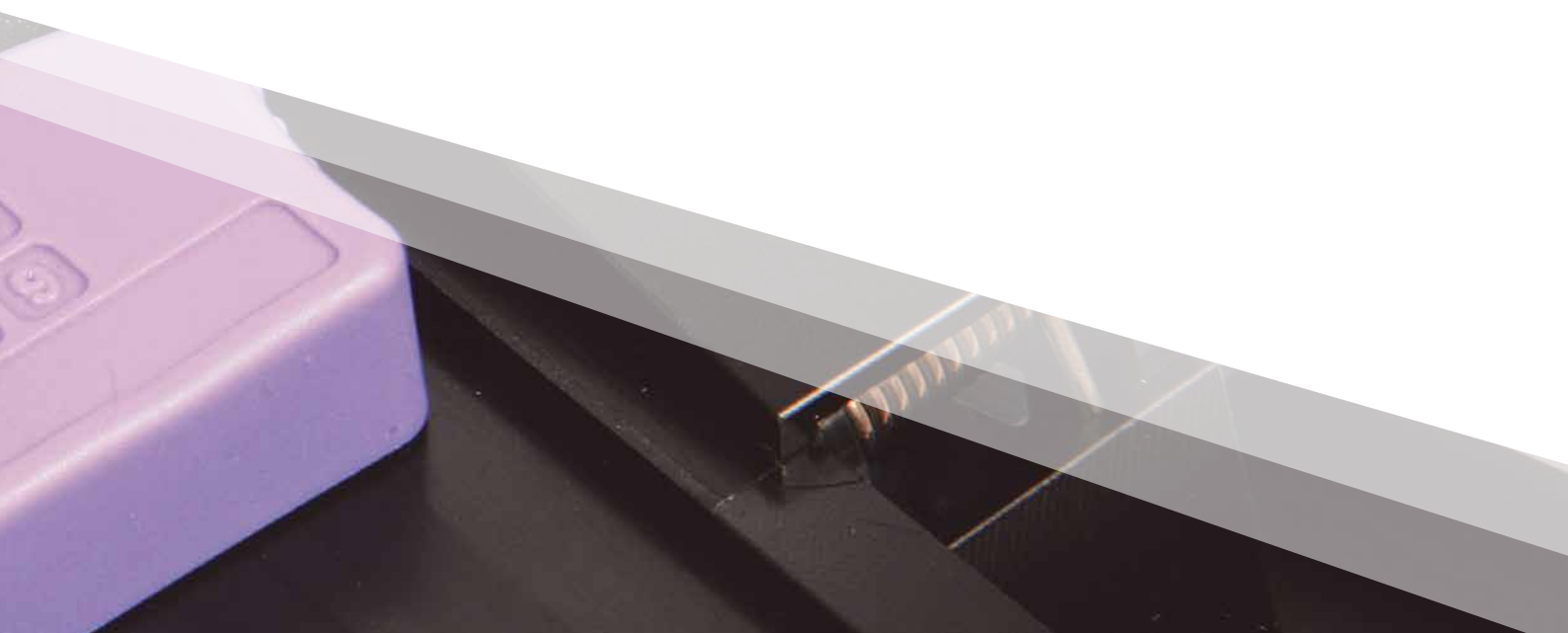


9mm x 9mm Biochip

Discrete Test Regions

Product Certifications

All of our Biochip Array tests conform to one or more of the following standards:



Antimicrobial Array I Ultra

Available on Evidence Investigator

Catalogue No: EV3843

Tests per kit: 54 tests

Requires preparation kit for milk (EV3776)

Product Accreditation



GOST No: 34275-2017

LOD Key

H Honey **T** Tissue **M** Milk

Assay	LOD (ppb)		Compound	%CR
Sulphadimethoxine	5.00	H	Sulphadimethoxine*	100
	6.50	T	Sulphamonomethoxine	1.7
	0.60	M		
Sulphadiazine	5.00	H	Sulphadiazine*	100
	3.00	T		
	0.50	M		
Sulphadoxine	5.00	H	Sulphadoxine*	100
	3.20	T		
	0.50	M		
Sulphachlorpyridazine	5.00	H	Sulphachlorpyridazine*	100
	2.00	T	Sulphamethizole	1.2
	0.50	M		
Sulphamethoxypyridazine	5.00	H	Sulphamethoxypyridazine*	100
	2.00	T	Sulphaethoxypyridazine	56
	0.50	M	Sulphachlorpyridazine	2.1
Sulphamerazine	5.00	H	Sulphamerazine*	100
	2.00	T	Sulphadiazine	4.8
	0.50	M		
Sulphisoxazole	5.00	H	Sulphisoxazole*	100
	2.00	T	Sulphachlorpyridazine	2.9
	0.50	M	Sulphamethizole	2.2
Sulphathiazole	5.00	H	Sulphathiazole*	100
	2.00	T	Sulphadiazine	6.2
	0.50	M	Sulphapyridine	1.5
Sulphamethazine	5.00	H	Sulphamethazine*	100
	3.20	T	Sulphamerazine	1.9
	2.50	M		
Sulphaquinoxaline	5.00	H	Sulphaquinoxaline*	100
	2.00	T		
	0.50	M		
Sulphapyridine	8.00	H	Sulphapyridine*	100
	3.20	T	Sulphasalazine	12.9
	0.50	M	Sulphamethoxypyridazine	3.4
Sulphamethoxazole	1.60	H	Sulphamethoxazole*	100
	1.60	T	Sulphamethizole	92
	0.50	M	Sulphachlorpyridazine	12.1
Sulphamonomethoxine	20.00	H	Sulphamonomethoxine*	100
	10.00	T		
	2.00	M		
Trimethoprim	9.00	H	Trimethoprim*	100
	3.00	T		
	0.50	M		
Dapsone	3.50	H	Dapsone*	100
	3.50	T		
	0.50	M		

*Each LOD standardised to this compound

Antimicrobial Array II Plus

Available on Evidence Investigator

Catalogue No: EV4169 A/B

Tests per kit: 54 tests

Requires preparation kit for milk (EV3776),
and feed (EV3724)

LOD Key

H Honey **F** Feed **U** Urine
M Milk **T** Tissue

Assay	LOD (ppb)		Compound	%CR
Quinolones	3.00	H	Norfloxacin*	100
	10.00	F	Pefloxacin	84
	4.50	U	Enrofloxacin	76
	1.00	M	Ciprofloxacin	59
	5.00	T	Ofloxacin	57
			Enoxacin	54
			Pipemidic Acid	36
			Fleroxacin	32
			Levofloxacin	32
			Nadifloxacin	27
			Orbifloxacin	23
			Danofloxacin	20
			Marbofloxacin	16
			Oxolinic Acid	12
			Difloxacin	8
			Pazufloxacin	7
			Sarafloxacin	6
Ceftiofur	2.00	H	Ceftiofur*	100
	15.00	F	Desfuroylceftiofur	92
	3.30	U		
	1.50	M		
	4.60	T		
Thiamphenicol	1.00	H	Florfenicol*	100
	15.00	F	Thiamphenicol	53
	0.70	U		
	0.50	M		
	1.30	T		
Streptomycin	3.00	H	Streptomycin*	100
	80.00	F	Dihydrostreptomycin	99
	5.00	U		
	2.00	M		
	7.00	T		
Tylosin	1.00	H	Tylosin*	100
	10.00	F	Tilmicosin	37
	0.50	U		
	2.50	M		
	0.90	T		
Tetracyclines	4.50	H	Tetracycline*	100
	10.00	F	4-epitetracycline	87
	1.30	U	Rolitetracycline	67
	1.00	M	4-epioxytetracycline	52
	4.80	T	Oxytetracycline	52
			Chlortetracycline	51
			Demeclocycline	41
			Doxycycline	23
			4-epichlortetracycline	20
			Methacycline	11

*Each LOD standardised to this compound

Antimicrobial Array III

Available on Evidence Investigator

Catalogue No: EV3695

Tests per kit: 54 tests

LOD Key

H Honey **PS** Prawn / Shrimp **T** Tissue

Assay	LOD (ppb)		Compound	%CR
AOZ	0.30	H	4-NP-AOZ*	100
	0.06	PS	Furazolidone	8.3
	0.06	T		
AMOX	0.08	H	4-NP-AMOX*	100
	0.08	PS	Furaltadone	40.7
	0.08	T		
AHD	0.30	H	4-NP-AHD*	100
	0.08	PS	Nitrofurantoin	41.9
	0.08	T		
SEM	0.50	H	4-NP-SEM*	100
	0.35	PS		
	0.40	T		

*Each LOD standardised to this compound

Antimicrobial Array III (CAP Only)

Available on Evidence Investigator

Catalogue No: EV3738

Tests per kit: 54 tests

Requires preparation kit for milk (EV3776)

LOD Key

H Honey **BV** Bovine Muscle **M** Milk

PS Prawn/Shrimp

Assay	LOD (ppb)		Compound	%CR
Chloramphenicol	0.14	H	Chloramphenicol*	100
	0.01	BV	Chloramphenicol Glucuronide	75.1
	0.04	M		
	0.01	PS		

*Each LOD standardised to this compound

Antimicrobial Array V

Available on Evidence Investigator

Catalogue No: EV4027

Tests per kit: 54 tests

LOD Key

H Honey

Assay	LOD (ppb)		Compound	%CR
Nitroimidazoles	0.90	H	Metronidazole*	100
			Ronidazole	310
			Hydroxy-Metronidazole	145
			Dimetridazole	90
			Ternidazole	85
			Ipronidazole	82
			HMMNI	56
			Hydroxy-Ipronidazole	7
			Carnidazole	3
			Secnidazole	2
Chloramphenicol	0.10	H	Chloramphenicol*	100
			Chloramphenicol Glucuronide	75

*Each LOD standardised to this compound

Antimicrobial Array IV

Available on Evidence Investigator

Catalogue No: EV3878 A/B

Tests per kit: 54 tests

LOD Key

H Honey

Assay	LOD (ppb)		Compound	%CR
Spiramycin/Josamycin	2.00	H	Spiramycin*	100
			Kitasamycin	169
			Spiramycin I	79
			Acetylspiramycin	32
			Josamycin	27
Apramycin	2.00	H	Apramycin*	100
Bacitracin	1.20	H	Bacitracin*	100
Neomycin/Paromomycin	1.00	H	Neomycin*	100
			Paromomycin	182
			Framycetin	25
Tobramycin	4.00	H	Tobramycin*	100
			Kanamycin B	24
			Dibekacin	20
Tylosin B/Tilmicosin	1.00	H	Tylosin A*	105
			Tylosin B	100
			Tilmicosin	82
			Tylvalosin	48
Spectinomycin	2.60	H	Spectinomycin*	100
Amikacin/Kanamycin	6.00	H	Amikacin*	100
			Kanamycin A	260
			Kanamycin B	9
Lincosamides	8.00	H	Lincomycin*	100
			Clindamycin	160
			Pirlimycin	38
Erythromycin	2.50	H	Erythromycin*	100
			Clarithromycin	498
			Roxithromycin	334
			Gamithromycin	51
			Anhydroerythromycin A	20
			Tulathromycin	10
			Oleandomycin	3
Streptomycin/ Dihydrostreptomycin	4.00	H	Streptomycin*	100
			Dihydrostreptomycin	135
Virginiamycin	2.00	H	Virginiamycin MI*	100

*Each LOD standardised to this compound

Anthelmintics Array

Available on Evidence Investigator

Catalogue No: EV3770

Tests per kit: 54 tests

LOD Key

M Milk **BM** Bovine Muscle

Assay	LOD (ppb)		Compound	%CR
Benzimidazoles	1.00	M	Albendazole*	100
	1.00	BM	Albendazole Sulphoxide	99
			Albendazole Sulphone	178
			Fenbendazole	10
			Oxfendazole	40
			Oxibendazole	48
			Parbendazole	30
			Flubendazole	29
			Mebendazole	18
			Oxfendazole Sulphone	14
			Carbendazim	10
			Hydroxy Flubendazole	2
			Hydroxy Mebendazole	1
Amino Benzimidazoles	0.30	M	Albendazole 2-Amino sulphone*	100
	0.15	BM	Amino-Mebendazole	141
			Amino-Flubendazole	99
Thiabendazole	0.50	M	Thiabendazole*	100
	1.20	BM	Cambendazole	800
			5-Hydroxythiabendazole	91
Triclabendazole	0.60	M	Triclabendazole*	100
	0.80	BM	Keto-Triclabendazole	150
			Triclabendazole Sulphoxide	40
			Triclabendazole Sulphone	1
Levamisole	2.00	M	Levamisole*	100
	6.50	BM		
Moxidectin	1.60	M	Moxidectin*	100
	1.60	BM		
Avermectins	0.75	M	Ivermectin*	100
	0.75	BM	Emamectin Benzoate	254
			Eprinomectin	191
			Abamectin	178
			Doramectin	75

*Each LOD standardised to this compound

Growth Promoter (Ractopamine Only)

Available on Evidence Investigator

Catalogue No: EV3920

Tests per kit: 54 tests

Requires preparation kit for feed (EV3724)

Requires growth promoter IAC for urine (GPI821)

LOD Key

U Urine **F** Feed **BP** Beef / Pork / Poultry

Assay	LOD (ppb)		Compound	%CR
Ractopamine	0.20	U	Ractopamine*	100
	2.00	F	Ractopamine Hydrochloride	100
	0.10	BP		

*Each LOD standardised to this compound

Beta Lactams Array Plus

Available on Evidence Investigator

Catalogue No: EV3957 A/B

Tests per kit: 54 tests

Requires preparation kit for milk (EV3776)

LOD Key

M Milk

Assay	LOD (ppb)		Compound	%CR
Beta Lactam	0.75	M	Ampicillin*	100
			Amoxicillin	59
			Cloxacillin	52
			Dicloxacillin	70
			Nafcillin	6
			Oxacillin	47
			Penicillin G	388
			Penicillin V	246
			Cefacetil	7
			Cefazolin	6
			Cefoperazone	105
			Cefquinome	12
			Ceftiofur	11
			Cephalonium	237
			Cefapirin	81
			Cephalexin	1
Cephalexin	0.30	M	Cephalexin*	100
			Cefadroxil	39.4
Cefuroxime	1.25	M	Cefuroxime*	100

*Each LOD standardised to this compound

Coccidiostats Array (Egg)

Available on Evidence Investigator

Catalogue No: EV3772

Tests per kit: 54 tests

LOD for egg samples measured in ppb

LOD Key

E Egg

Assay	LOD		Compound	%CR
Clopidol	90.00	E	Clopidol*	100
			Nequinat	135
Decoquinat	10.00	E	Decoquinat*	100
Diclazuril	1.80	E	Diclazuril*	100
			Clazuril	12
Halofuginone	1.00	E	Halofuginone*	100
Imidocarb	0.10	E	Imidocarb*	100
Lasalocid	2.00	E	Lasalocid*	100
Maduramicin	0.70	E	Maduramicin*	100
Monensin	0.60	E	Monensin*	100
			Monensin A	89
Nicarbazin	0.20	E	Dinitrocarbanilide*	100
			Nicarbazin	98
Robenidine	4.50	E	Robenidine*	100
Salinomycin	0.75	E	Salinomycin*	100
			Narasin	130
Toltrazuril	1.50	E	Toltrazuril Sulphone*	100
			Toltrazuril Sulphoxide	145
			Toltrazuril	7

*Each LOD standardised to this compound

Coccidiostats Array (Feed)

Available on Evidence Investigator

Catalogue No: EV4131A/B

Tests per kit: 54 tests

LOD for feed samples measured in mg/kg

Requires CCS Feed Preparation Kit (EV4131B)

LOD Key

FP Premixed Feed

FM Medicated Final Feed

Assay	LOD		Compound	%CR
Clopidol	125.000	FP	Clopidol*	100
	1.000	FM	Nequinat	135
Decoquinat	39.125	FP	Decoquinat*	100
	0.313	FM		
Diclazuril	5.500	FP	Diclazuril*	100
	0.044	FM	Clazuril	12
Halofuginone	1.625	FP	Halofuginone*	100
	0.013	FM		
Lasalocid	7.875	FP	Lasalocid*	100
	0.063	FM		
Maduramicin	2.375	FP	Maduramicin*	100
	0.019	FM		
Monensin	1.125	FP	Monensin*	100
	0.009	FM	Monensin A	89
Nicarbazin	0.625	FP	Dinitrocarbanilide*	100
	0.005	FM	Nicarbazin	98
Robenidine	25.000	FP	Robenidine*	100
	0.200	FM		
Salinomycin	2.000	FP	Salinomycin*	100
	0.016	FM	Narasin	130

*Each LOD standardised to this compound

LODs obtained using 5000 fold dilution, Further dilution can be applied.

Coccidiostats Array (Tissue)

Available on Evidence Investigator

Catalogue No: EV4132

Tests per kit: 54 tests

LOD Key

T Tissue

Assay	LOD (ppb)		Compound	%CR
Lasalocid	5.50	T	Lasalocid*	100
Nicarbazin	1.25	T	Dinitrocarbanilide*	100
			Nicarbazin	98
Maduramicin	1.60	T	Maduramicin*	100
Salinomycin	7.00	T	Salinomycin*	100
			Narasin	130
Monensin	3.00	T	Monensin*	100
			Monensin A	89
Halofuginone	1.50	T	Halofuginone*	100
Diclazuril	5.00	T	Diclazuril*	100
			Clazuril	12
Toltrazuril	4.00	ML	Toltrazuril Sulphone*	100
			Toltrazuril Sulphoxide	145
			Toltrazuril	7

*Each LOD standardised to this compound

Growth Promoter (Multiple Matrix)

Available on Evidence Investigator

Catalogue No: EV3726

Tests per kit: 54 tests

Requires growth promoter IAC for tissue and urine samples (GP1821), feed preparation kit (EV3724)

LOD Key

UE Urine (Extraction Method) **F** Feed

UD Urine (Dilution Method - Rapid Screen)

Assay	LOD (ppb)		Compound	%CR
Beta-Agonists	0.74	UD	Clenbuterol*	100
	0.20	UE	Carbuterol	104
	8.00	F	Brombuterol	88
	0.20	T	Salbutamol	70
			Methyl-clenbuterol	20
			Cimbuterol	54
			Terbutaline	22
			Mabuterol	41
			Pirbuterol	15
			Mapenterol	113
Boldenone	1.83	UD	17 β - Boldenone*	100
	0.80	UE	1,4-Androstadiene-3,17-dione	55
	140.00**	F	17 α - Boldenone	15
	0.50	T	Boldenone Glucuronide	15
Corticosteroids	0.91	UD	Dexamethasone*	100
	0.20	UE	Flumethasone	57
	10.00	F	Betamethasone	31
	0.40	T	Dexamethasone 21 Acetate	27
			Betamethasone 21 Acetate	133
Nandrolone	7.00	UD	19-Nortestosterone (17 β)*	100
	2.00	UE	Trenbolone (17 β)	70
	170.00**	F	Trenbolone Acetate	109
	1.40	T	19-Nor-4-Androstene,3,17-Dione	143
			19-Nortestosterone (17 α)	27
			19-Nortestosterone (17 β) Sulphate	55
			19-Nortestosterone β Glucuronide	26
Ractopamine	1.43	UD	Ractopamine*	100
	0.20	UE	Ractopamine Hydrochloride	100
	2.00	F		
	0.30	T		
Stanozolol	1.99	UD	Stanozolol*	100
	0.40	UE	16 β -Hydroxystanozolol	45
	9.00	F		
	0.40	T		
Stilbenes	6.00	UD	Hexestrol*	100
	0.40	UE	Diethylstilbestrol	105
	25.00	F	Diethylstilbestrol Glucuronide	289
	0.90	T	Dienestrol	72
Trenbolone	0.46	UD	Trenbolone (17 β)*	100
	0.40	UE	Trenbolone (17 α)	21
	8.00	F		
	0.10	T		
Zearanol	1.47	UD	Zearanol*	100
	0.80	UE	α -Zearalenol	10
	15.00	F	β -Zearalenol	5.3
	0.30	T		

*Each LOD standardised to this compound

**Further dilution may be required for quantification

InfiniPlex for Milk

Available on:

Evidence Investigator | Catalogue No: EV4076 | Results Type: Qualitative

Evidence MultiSTAT | Catalogue No: EV4278 | Results Type: Qualitative

Decision Level Key

RM Raw Commingled Cow Milk

DLs IPM EI - Decision Levels for Evidence Investigator

DLs IPM MS - Decision Levels for Evidence MultiSTAT

Drug Residue	Channel ID IPM	DLs IPM EI (ppb)	DLs IPM MS (ppb)
Penicillin G (Benzylpenicillin)	Beta-Lactams	0.88 RM	0.75 RM
Ampicillin		2.00 RM	3.00 RM
Dicloxacillin		2.00 RM	1.35 RM
Amoxicillin		2.40 RM	1.90 RM
Cloxacillin		1.30 RM	3.00 RM
Oxacillin		1.40 RM	3.75 RM
Nafcillin		3.00 RM	6.75 RM
Cefalonium		0.35 RM	1.25 RM
Cefoperazone		3.80 RM	1.75 RM
Cefapirin		5.00 RM	15.00 RM
Cefquinome		6.30 RM	5.50 RM
Ceftiofur		25.00 RM	89.00 RM
Desfuroylceftiofur		25.00 RM	<100 RM
Cefacetril		10.00 RM	32.00 RM
Cefazolin		18.00 RM	>50.00 RM
Penicillin V (Phenoxymethylpenicillin)		0.15 RM	1.50 RM
Penicillin G Procaine		x	1.90 RM
Procaine Benzylpenicillin		0.50 RM	x
Penethamate		2.00 RM	6.50 RM
Benzathine Benzylpenicillin		1.25 RM	2.00 RM
Cephalothin		3.10 RM	14.00 RM
Desacetylcefapirin		3.75 RM	25.00 RM
Cefalexin	Cefalexin	23.00 RM	7.00 RM
Erythromycin	Erythromycin	2.50 RM	4.00 RM
Gamithromycin		32.00 RM	600.00 RM
Tulathromycin		50.00 RM	>1100 RM
Roxithromycin		0.63 RM	x
Oleandomycin		60.00 RM	>1500 RM
Spiramycin	Spiramycin	52.00 RM	30.00 RM
Josamycin		1.60 RM	x
Neospiramycin		56.00 RM	125.00 RM
Tildipirosin	Tildipirosin	x	1.30 RM
Tilmicosin		x	5.00 RM
Trimethoprim	Trimethoprim	9.00 RM	2.00 RM
Baquiloprim	Baquiloprim	3.00 RM	6.00 RM

Drug Residue	Channel ID IPM	DLs IPM EI (ppb)	DLs IPM MS (ppb)
Enrofloxacin	Quinolones	12.50 RM	1.50 RM
Ciprofloxacin		13.80 RM	2.00 RM
Danofloxacin		11.30 RM	3.00 RM
Difloxacin		20.00 RM	5.00 RM
Marbofloxacin		22.50 RM	5.75 RM
Oxolinic Acid		15.00 RM	5.00 RM
Flumequine		22.50 RM	7.00 RM
Pefloxacin (Perfloxacin)		6.25 RM	1.00 RM
Norfloxacin		20.00 RM	1.00 RM
Ofloxacin		12.50 RM	3.25 RM
Tilmicosin	Tylosin	12.50 RM	8.00 RM
Tylosin A		7.50 RM	6.00 RM
Lincomycin	Lincosamides	6.50 RM	10.00 RM
Clindamycin		9.00 RM	9.00 RM
Pirlimycin		>150 RM	x
Pirlimycin	Pirlimycin	11.00 RM	25.00 RM
Streptomycin	Streptomycin	32.00 RM	45.00 RM
Dihydrostreptomycin		20.00 RM	35.00 RM
Gentamycin	Gentamicin	22.00 RM	7.00 RM
Neomycin	Neomycin	9.00 RM	35.00 RM
Framycetin		7.50 RM	45.00 RM
Paromomycin		3.00 RM	30.00 RM
Kanamycin A	Kanamycin	4.00 RM	30.00 RM
Spectinomycin	Spectinomycin	48.00 RM	4.00 RM
Chloramphenicol	Amphenicols	0.22 RM	0.15 RM
Thiamphenicol		1.60 RM	1.75 RM
Florfenicol		0.40 RM	0.20 RM
Colistin	Polymixins	1.30 RM	2.00 RM
Polymixin B		0.50 RM	1.50 RM
Bacitracin	Bacitracin	2.00 RM	1.75 RM
Meloxicam	Meloxicam	6.00 RM	4.50 RM
4-Methylaminoantipyrin	Metamizole	42.00 RM	20.00 RM
Metamizole (Dipyrone)		24.00 RM	17.00 RM
Tolfenamic Acid	Tolfenamic Acid	1.60 RM	2.50 RM
Flunixin		1.08 RM	1.90 RM
5-hydroxy Flunixin		100.00 RM	>55.00 RM

Drug Residue	Channel ID	IPM EI (ppb)	DLs IPM EI (ppb)	IPM MS (ppb)	DLs IPM MS (ppb)
Virginiamycin MI	Virginiamycin	0.75	RM	1.00	RM
Chlortetracycline	Tetracyclines	2.50	RM	4.75	RM
4-epichlortetracycline		5.00	RM	9.50	RM
Tetracycline		1.25	RM	3.75	RM
4-epitetracycline		2.50	RM	6.75	RM
Oxytetracycline		1.25	RM	3.75	RM
4-epioxytetracycline		2.50	RM	7.50	RM
Doxycycline		1.25	RM	5.50	RM
Cefuroxime	Cefuroxime	8.50	RM	7.00	RM
Ceftiofur		x	RM	>100	RM
Desfuoyl Ceftiofur		x	RM	>100	RM
5-OH Flunixin	5-hydroxy Flunixin	0.25	RM	0.5	RM
Flunixin		0.36	RM	0.8	RM
Sulphathiazole	Sulphonamides	24.00	RM	16.00	RM
Sulphaquinoxaline		4.50	RM	2.30	RM
Sulphadimethoxine		1.60	RM	1.80	RM
Sulphacetamide		2.40	RM	1.00	RM
Sulphadoxine		2.50	RM	1.50	RM
Sulphabenzamide		0.56	RM	0.75	RM
Sulphamethoxazole		1.60	RM	2.50	RM
Sulphamonomethoxine		0.76	RM	1.00	RM
Sulphachlorpyridazine		1.80	RM	2.25	RM
Sulphadiazine		9.50	RM	7.50	RM
Sulphamethoxypyridazine		40.00	RM	43.00	RM
Sulfisoxazole		0.75	RM	0.70	RM
Sulphamerazine		22.00	RM	70.00	RM
Sulphamethizole		6.00	RM	7.50	RM
Sulphameter		6.00	RM	4.50	RM
Sulphamoxol		88.00	RM	60.00	RM
Sulphanitran		46.00	RM	28.00	RM
Sulphaphenazole		4.60	RM	2.50	RM
Sulphatroxazole		0.75	RM	0.75	RM
Sulfisomidine		13.00	RM	15.00	RM
Sulphaethoxypyridazine		30.00	RM	25.00	RM
Sulphapyridine		110.00	RM	60.00	RM
Sulfaclozine		4.00	RM	x	
Chlormadinone	Chlormadinone	1.20	RM	8.00	RM
Methylprednisolone	Methylprednisolone	0.40	RM	0.60	RM
Prednisolone		1.40	RM	2.50	RM
Phenylbutazone	Phenylbutazone	1.25	RM	1.10	RM
Oxyphenbutazone		1.50	RM	0.75	RM
Rifaximin	Rifaximin	1.00	RM	3.00	RM
Sulphaguanidine	Sulphaguanidine	50.00	RM	22.00	RM
Cefazolin	Cefazolin	x		1.50	RM

Drug Residue	Channel ID	IPM EI (ppb)	DLs IPM EI (ppb)	IPM MS (ppb)	DLs IPM MS (ppb)
Sulphamethazine (Sulphadimidine)	Sulphamethazine	1.20	RM	2.00	RM
Sulphamerazine		25.00	RM	37.50	RM
Sulphamoxol		174.00	RM	450.00	RM
Sulphapyridine	Sulphapyridine	0.90	RM	5.00	RM
Sulphaethoxypyridazine		30.00	RM	47.00	RM
Sulphamethoxypyridazine		30.00	RM	43.00	RM
Sulphamoxol		28.50	RM	65.00	RM
Sulphasalazine		1.20	RM	4.70	RM
Sulphanitran		60.00	RM	150.00	RM
Sulphathiazole		50.00	RM	150.00	RM
Sulphamonomethoxine		80.00	RM	>400	RM
Sulphachlorpyridazine		>100	RM	x	
Melamine	Melamine	200.00	RM	150.00	RM
Cyromazine		27.00	RM	12.50	RM
Nitroxynil	Nitroxynil	1.50	RM	2.00	RM
Aflatoxin M1	Aflatoxin M1	0.038	RM	0.045	RM
Novobiocin	Novobiocin	12.50	RM	3.00	RM
Dexamethasone	Dexamethasone	0.20	RM	0.25	RM
Betamethasone		2.50	RM	1.00	RM
Ractopamine	Ractopamine	0.32	RM	0.50	RM
Tripelennamine	Tripelennamine	x		5.00	RM
Tobramycin	Tobramycin	7.00	RM	x	
Kanamycin		100.00	RM	x	
Hygromycin B	Hygromycin B	7.50	RM	x	
Dapsone	Dapsone	0.90	RM	0.90	RM
Sulphathiazole		35.00	RM	17.00	RM
Sulphadoxine		25.00	RM	25.00	RM
Sulphadimethoxine		7.00	RM	6.00	RM
Sulphanitran		70.00	RM	70.00	RM
Sulphapyridine		50.00	RM	50.00	RM
Sulphaquinoxaline		5.00	RM	5.00	RM
Sulphamerazine		12.50	RM	15.00	RM
Sulphamonomethoxine		12.00	RM	57.00	RM
Sulphadiazine		30.00	RM	25.00	RM
Sulphamethoxypyridazine		85.00	RM	43.00	RM
Sulphamethizole		25.00	RM	27.50	RM
Sulphameter		10.00	RM	7.50	RM
Sulfisomidine		16.00	RM	15.00	RM
Sulphamethazine		15.00	RM	20.00	RM
Sulphaethoxypyridazine		30.00	RM	25.00	RM
Sulphamethoxazole		50.00	RM	95.00	RM
Sulphamoxol		>100	RM	x	

InfiniPlex for Milk II

Available on Evidence Investigator

Catalogue No: EV4301

Results Type: Qualitative

Decision Level Key

RM Raw Commingled Cow Milk

Drug Residue	Assay Name (Abbreviation)	Decision Level (ppb)
Albendazole	Benzimidazoles (BNZ)	0.25 RM
Albendazole sulfoxide		0.10 RM
Albendazole sulphone		0.10 RM
Fenbendazole		3.00 RM
Oxfendazole (Fenbendazole sulfoxide)		0.70 RM
Oxibendazole		1.00 RM
Mebendazole		0.70 RM
Oxfendazole sulphone (Fenbendazole sulphone)		0.50 RM
Hydroxy Mebendazole		4.00 RM
Flubendazole		0.28 RM
Hydroxy Flubendazole		1.00 RM
Parbendazole		1.80 RM
Carbendazim		15.00 RM
Albendazole 2-amino sulphone		4.00 RM
Albendazole 2-amino sulphone	2-Amino Benzimidazole (AMINO)	0.20 RM
Amino-flubendazole		0.50 RM
Amino-mebendazole		0.40 RM
Oxfendazole sulphone (Fenbendazole sulphone)		>600 RM
Thiabendazole	Thiabendazole/Niclosamide (THIA)	0.60 RM
Niclosamide		>150 RM
5-hydroxythiabendazole		0.50 RM
Cambendazole		0.06 RM
Triclabendazole (TCBZ)	Triclabendazole (TRI)	4.50 RM
Triclabendazole Sulfoxide		0.70 RM
Triclabendazole Sulphone		2.00 RM
Keto-triclabendazole		0.80 RM

Drug Residue	Assay Name (Abbreviation)	Decision Level (ppb)	
Levamisole	Levamisole (LEVA)	30.00	RM
Ivermectin	Avermectins (AVER)	3.00	RM
Abamectin		1.00	RM
Doramectin		4.00	RM
Enamectin Benzoate		0.15	RM
Eprinomectin		0.70	RM
Moxidectin	Moxidectin (MOXI)	38.00	RM
Nitroxylnil	Nitroxylnil (NTX)	1.20	RM
Closantel	Closantel (CLOS)	43.00	RM
Rafoxanide		>150	RM
Niclosamide		>150	RM
Oxyclozanide		>300	RM
Oxyclozanide	Oxyclozanide (OXY)	5.00	RM
Clorsulon	Clorsulon (CLOR)	5.00	RM
Morantel	Morantel (MRT)	1.00	RM
Pyrantel		0.25	RM
Oxantel		2.50	RM
Derquantel	Derquantel (DRQ)	0.45	RM
Monepantel	Monepantel (MON)	4.00	RM
Monepantel Sulfone		1.50	RM
Halofuginone	Halofuginone (HALO)	0.50	RM
Imidocarb	Imidocarb (IMIDO)	11.00	RM
Toltrazuril Sulfone	Toltrazuril (TOLT)	1.15	RM
Toltrazuril		1.00	RM
Toltrazuril Sulfoxide		1.50	RM
Monensin	Monensin (MOE)	1.80	RM
Lasalocid	Lasalocid (LAS)	4.00	RM

Mycoflex

Available on Evidence Investigator

Tests per kit: 54 tests

Catalogue No: Custom

A Fully Customisable Array

Select a minimum of two analytes or more to create your own Mycoflex Biochip (minimum order of 25 kits).

LOD Key

C Cereals & Cereal Based Feed

Assay	LOD (ppb)		Compound	%CR
Aflatoxin B1	0.25	C	Aflatoxin B1*	100
			Aflatoxin B2	18
			Aflatoxin G1	15
			Aflatoxin G2	3
Aflatoxin G1	0.50	C	Aflatoxin G1*	100
			Aflatoxin G2	71
			Aflatoxin B1	8
			Aflatoxin B2	5
Deoxynivalenol	80.00	C	DON*	100
			3-Acetyl-DON	723
			15-Acetyl-DON	3
			DON-3-Glucoside	91
Diacetoxyscirpenol	20.00	C	Diacetoxyscirpenol*	100
Fumonisin	175.00	C	Fumonisin B1*	100
			Fumonisin B2	91
			Fumonisin B3	100
Ochratoxin A	0.40	C	Ochratoxin A*	100
Paxilline	5.00	C	Paxilline*	100
T2 toxin	7.00	C	T2 toxin*	100
			HT2 toxin	100
Zearalenone	5.00	C	Zearalenone*	100
			α -Zearalenol	114
			β -Zearalenol	69
			Zearalanone	65
			α -Zearalanol	51
			β -Zearalanol	52

*Each LOD standardised to this compound

Myco 9 Array

Available on Evidence Investigator

Catalogue No: EV3941

Tests per kit: 54 tests

LOD Key

C Cereals & Cereal Based Feed

Assay	LOD (ppb)		Compound	%CR
Aflatoxin B1	0.25	C	Aflatoxin B1*	100
			Aflatoxin B2	18
			Aflatoxin G1	15
			Aflatoxin G2	3
Aflatoxin G1	0.50	C	Aflatoxin G1*	100
			Aflatoxin G2	71
			Aflatoxin B1	8
			Aflatoxin B2	5
Deoxynivalenol	80.00	C	DON*	100
			3-Acetyl-DON	723
			15-Acetyl-DON	3
			DON-3-Glucoside	91
Diacetoxyscirpenol	20.00	C	Diacetoxyscirpenol*	100
Fumonisin	175.00	C	Fumonisin B1*	100
			Fumonisin B2	91
			Fumonisin B3	100
Ochratoxin A	0.40	C	Ochratoxin A*	100
Paxilline	5.00	C	Paxilline*	100
T2 toxin	7.00	C	T2 toxin*	100
			HT2 toxin	100
Zearalenone	5.00	C	Zearalenone*	100
			α -Zearalenol	114
			β -Zearalenol	69
			Zearalanone	65
			α -Zearalanol	51
			β -Zearalanol	52

*Each LOD standardised to this compound

Myco 7 Array

Available on Evidence Investigator

Catalogue No: EV4065

Tests per kit: 54 tests

LOD Key

C Cereals & Cereal Based Feed

Assay	LOD (ppb)		Compound	%CR
Aflatoxin B1	0.25	C	Aflatoxin B1*	100
			Aflatoxin B2	18
			Aflatoxin G1	15
			Aflatoxin G2	3
Aflatoxin G1	0.50	C	Aflatoxin G1*	100
			Aflatoxin G2	71
			Aflatoxin B1	8
			Aflatoxin B2	5
Deoxynivalenol	80.00	C	DON*	100
			3-Acetyl-DON	723
			15-Acetyl-DON	3
			DON-3-Glucoside	91
Fumonisin	175.00	C	Fumonisin B1*	100
			Fumonisin B2	91
			Fumonisin B3	100
Ochratoxin A	0.40	C	Ochratoxin A*	100
T2 toxin	7.00	C	T2 toxin*	100
			HT2 toxin	100
Zearalenone	5.00	C	Zearalenone*	100
			α -Zearalenol	114
			β -Zearalenol	69
			Zearalanone	65
			α -Zearalanol	51
			β -Zearalanol	52

*Each LOD standardised to this compound

Myco 6 Array

Available on Evidence Investigator

Catalogue No: EV4445

Tests per kit: 54 tests

LOD & Range Key

CN Corn **SA** Soya **W** Wheat

OS Oil Seeds **CO** Cereal & Oil Based Feed

Updated Product

The Myco 6 multi-mycotoxin array for Biochip reduces analytical waiting time by 40% in comparison to the other Biochip mycotoxin arrays.

Sample preparation follows a single simple extraction protocol.

Assay	LOD (ppb)		Quantification Range (ppb)		Compound	%CR
Aflatoxin B1	1.00	CN	80	CN	Aflatoxin B1*	100
	1.50	SA	80	SA	Aflatoxin B2	25
	1.00	W	80	W	Aflatoxin G1	23
	1.50	OS	80	OS	Aflatoxin G2	4
	5.00	CO	400	CO		
Deoxynivalenol	150.00	CN	3,000	CN	DON*	100
	200.00	SA	3,000	SA	3-Acetyl-DON	865
	150.00	W	3,000	W	DON-3-Glucoside	88
	300.00	OS	3,000	OS	15-Acetyl-DON	5
	400.00	CO	15,000	CO		
Fumonisin	200.00	CN	12,000	CN	Fumonisin B1*	100
	200.00	SA	12,000	SA	Fumonisin B2	90
	200.00	W	12,000	W	Fumonisin B3	94
	200.00	OS	12,000	OS		
	800.00	CO	60,000	CO		
Ochratoxin A	2.00	CN	160	CN	Ochratoxin A*	100
	2.50	SA	160	SA		
	1.50	W	160	W		
	2.50	OS	160	OS		
	10.00	CO	800	CO		
T2/HT2 toxins	10.00	CN	500	CN	T2 toxin*	100
	10.00	SA	500	SA	HT2 toxin	100
	10.00	W	500	W		
	10.00	OS	500	OS		
	30.00	CO	2,500	CO		
Zearalenone	12.50	CN	1,600	CN	Zearalenone*	100
	20.00	SA	1,600	SA	α -Zearalenol	78
	12.50	W	1,600	W	β -Zearalenol	17
	12.50	OS	1,600	OS	Zearalenone	34
	75.00	CO	8,000	CO	α -Zearalenol	30
					β -Zearalenol	13

*Each LOD standardised to this compound

Myco 5 Array

Available on Evidence Investigator

Catalogue No: EV4137 A/B

Tests per kit: 54 tests

LOD Key

C Cereals & Cereal Based Feed

Assay	LOD (ppb)		Compound	%CR
Aflatoxin B1	0.25	C	Aflatoxin B1*	100
			Aflatoxin B2	22
			Aflatoxin G1	13
			Aflatoxin G2	3
Aflatoxin G1	0.50	C	Aflatoxin G1*	100
			Aflatoxin G2	56
			Aflatoxin B1	9
			Aflatoxin B2	4
Deoxynivalenol	100	C	DON*	100
			3-Acetyl-DON	844
			15-Acetyl-DON	10
			DON-3-Glucoside	91
Ochratoxin A	0.25	C	Ochratoxin A*	100
			Ochratoxin B	2
Zearalenone	2.50	C	Zearalenone*	100
			α -Zearalenol	112
			β -Zearalenol	64
			Zearalanone	59
			α -Zearalanol	45
			β -Zearalanol	47

*Each LOD standardised to this compound

Pesticides Array

Available on Evidence Investigator

Catalogue No: EV4395A

Tests per kit: 54 tests

Results Type: Qualitative

Requires PAH I diluent SPE (EV4395B)

Decision Level Key

 Honey

Detectable Analytes	Assay Name (Abbreviation)	Decision Level (ppb)
Acetamiprid	Acetamiprid (AAP)	6.0
Amitraz (DMPF)	Amitraz (AMI)	10.0
Azoxystrobin	Azoxystrobin (AZX)	12.0
Bromopropylate	Bromopropylate (BRM)	40.0
Carbofuran	Carbofuran (CBF)	25.0
Carbaryl	Carbaryl (CBY)	10.0
Carbendazim	Carbendazim (CBZ)	250.0
Chlorpyrifos	Chlorpyrifos (CPY)	25.0
Clothianidin	Clothianidin (CLO)	25.0
Coumaphos	Coumaphos (COU)	8.0
Imidacloprid	Imidacloprid (IMI)	7.0
Thiamethoxam	Thiamethoxam (THM)	6.0
Fenpyroximate	Fenpyroximate (FNP)	10.0
Imazalil	Imazalil (IMZ)	6.0

Bovine Pathogen Array

Available on Evidence Investigator

Catalogue No: EV4355

Results Type: Qualitative

Sample Type

M Milk

Protecting Dairy Animal Health

Infectious disease represents a major threat to the productivity and welfare of cattle worldwide. The scale of infection and costs associated with disease outbreaks represent one of the biggest challenges facing farmers today. The introduction and spread of disease within a herd can result in loss of milk, meat and money.

Randox's Bovine Pathogen Array is the latest advancement in bovine disease screening, providing simultaneous antibody detection against six of the world's most economically important infectious agents.

Our exciting new panel utilises Randox Food's innovative Biochip Array Technology for the multiplex screening of a milk sample for nine biomarkers related to six prevalent bovine diseases.

Disease Detected	
Bovine Viral Diarrhoea (BVD)	Leptospirosis
Infectious Bovine Rhinotracheitis (IBR)	Neosporosis
Paratuberculosis	Fasciolosis



Benefits



Test Consolidation

Streamlined laboratory organisation with reduced labour, turnaround time and assay costs as all tests are performed simultaneously.



Enhanced Surveillance

Increased efficiency at producer level with the ability to simultaneously detect antibodies against 6 economically important bovine pathogens.



Higher Throughput

Capacity to test 47 samples for 6 pathogens in 2 hours 30 minutes using a single test kit.



Superior Diagnostic Capacity

Detection of subclinically and co-infected animals and the differentiation between vaccination and natural infection (DIVA* Capacity) for Infectious Bovine Rhinotracheitis using a single milk sample. *where feasible



No Sample Preparation

Unlike any other test for bovine pathogens, no sample preparation is needed for Paratuberculosis.



19-Nortestosterone/Trenbolone

ELISA Test Kit

Catalogue No: NT2105

Tests per kit: 96 tests

LOD Key

S Serum **U** Urine

Assay	LOD (ppb)		Compound	%CR
19-Nortestosterone	1.00	S	19-Nortestosterone (17β)*	100
	3.00 (RS)	U	Trenbolone (17β)	85
	0.80 (C18M)	U	Trenbolone Acetate	25
			19-Nor-4-Androstene-3,17-Dione	186
			19-Nortestosterone (17α)	50
			19-Nortestosterone (17β) Sulphate	40

*Each LOD standardised to this compound

(RS) - Rapid Screen

(C18M) - C18 Method

Avermectins

ELISA Test Kit

Catalogue No: AV3477

Tests per kit: 96 tests

LOD Key

U Urine **L** Liver **B** Beef

Assay	LOD (ppb)		Compound	%CR
Ivermectin	7.80	U	Ivermectin*	100
	5.00	L	Abamectin	148
	5.00	B	Emamectin Benzoate	174
			Eprinomectin	137
			Doramectin	40

*Each LOD standardised to this compound

Beta Agonist

ELISA Test Kit

Catalogue No: SU2148

Tests per kit: 96 tests

LOD Key

T Tissue **S** Serum **HF** Hair / Feather
M Milk **U** Urine **MP** Milk Powder
F Feed

Assay	LOD		Compound	%CR	
	Clenbuterol	Salbutamol		Clenbuterol	Salbutamol
Beta-Agonist	0.25	T	Clenbuterol*	100	116
	0.25	S	Cimbuterol	112	130
	1.00	HF	Bromochlorbuterol	91	106
	0.20	M	Carbuterol	90	105
	0.30	U	Salbutamol	86	100
	5.00	F	Methyl-Clenbuterol	75	87
	0.20	MP	Clenpenterol	65	76
			Hydrochloride	53	61
			Brombuterol	50	58
			Terbutaline	48	56
			Penbutolol	45	52
			Mabuterol	32	37
			Mapenterol	25	29
			Pirbuterol	23	27
			Tulobuterol	10	12
			Cimaterol	9	11
			Clenproperol	1	1.2
			Clorprenaline	<0.2	<0.2
			Ractopamine	<0.2	<0.2
			Feneterol		

*Each LOD standardised to this compound

Bacitracin

ELISA Test Kit

Catalogue No: RLS9222

Tests per kit: 96 tests

LOD Key

T Tissue

Assay	LOD (ppb)		Compound	%CR
Bacitracin	2.00	T	Bacitracin*	100

*LOD standardised to this compound

Beta-Agonist FAST Milk

ELISA Test Kit

Catalogue No: BF3507

Tests per kit: 96 tests

** CR% Salbutamol

*** CR% Clenbuterol

LOD Key

M Milk

Assay	LOD		Compound	%CR	
	Clenbuterol	Salbutamol		Clenbuterol	Salbutamol
Beta-Agonist	0.10 M	0.09 M	Cimbuterol	100	87
			Salbutamol	125	109
			Tulobuterol	115	100
			Bromochlorbuterol	97	84
			Brombuterol	86	75
			Carbuterol	75	65
			Mabuterol	56	49
			Clenpenterol	50	43
			Terbutaline	33	29
			Mapenterol	33	29
			Pirbuterol	30	26
			Penbutolol	28	24
			Cimaterol	6	5
			Clenproperol	5	4
			Clorprenaline	5	4
			Hydroxymethyl clenbuterol	2	1.7
				1	0.9

*Each LOD standardised to this compound

Clenbuterol

ELISA Test Kit

Catalogue No: CBI418

Tests per kit: 96 tests

LOD Key

T Tissue **F** Feed **MP** Milk Powder

U Urine **M** Milk

Assay	LOD (ppb)		Compound	%CR
Clenbuterol	0.50	T	Clenbuterol*	100
	5.00	F	Mabuterol	114
	0.10	MP	Bromochlorbuterol	106
	0.30	U	Brombuterol	96
	0.10	M	Methyl-Clenbuterol	53
			Mapenterol	49
			Clenpenterol hydrochloride	33
			Cimbuterol	26
			Clenproperol	6
			Salbutamol	3.8
			Carbuterol	2.5
			Terbutaline	1.6
			Pirbuterol	0.9

*Each LOD standardised to this compound

Chloramphenicol

ELISA Test Kit

Catalogue No: CN1469

Tests per kit: 96 tests

LOD Key

U Urine	S Serum	MP Milk Powder
MU Muscle	M Milk	H Honey
F Feed	E Egg	LK Liver / Kidney

Assay	LOD (ppb)		Compound	%CR
Chloramphenicol	0.25 (RS)	U	Chloramphenicol*	100
	0.01 (SE)	U	Chloramphenicol Glucuronide	100
	0.50 (RS)	S	Chloramphenicol Base	<0.10
	0.02 (SE)	S	Fluorophenicol	<0.05
	0.02	MU	Thiamphenicol	<0.5
	0.10 (SE)	MP		
	0.08 (RS)	MP		
	0.10 (RS)	M		
	0.02 (SE)	M		
	1.50 (RS)	H		
	0.07 (SE)	H		
	0.02	E		
	1.50	LK		
	0.20	F		

*Each LOD standardised to this compound

(RS) - Rapid Screen

(SE) - Solvent Extraction

Chloramphenicol FAST

ELISA Test Kit

Catalogue No: CN10171

Tests per kit: 96 tests

LOD Key

U Urine	S Serum	MP Milk Powder
MU Muscle	M Milk	H Honey
F Feed	E Egg	LK Liver / Kidney

Assay	LOD (ppb)		Compound	%CR
Chloramphenicol	0.25 (RS)	U	Chloramphenicol*	100
	0.01 (SE)	U	Chloramphenicol Glucuronide	100
	0.50 (RS)	S	Chloramphenicol Base	<0.10
	0.02 (SE)	S	Fluorophenicol	<0.05
	0.02	MU	Thiamphenicol	<0.5
	0.10 (SE)	MP		
	0.08 (RS)	MP		
	0.10 (RS)	M		
	0.02 (SE)	M		
	1.50 (RS)	H		
	0.07 (SE)	H		
	0.02	E		
	1.50	LK		
	0.20	F		

*Each LOD standardised to this compound

(RS) - Rapid Screen

(SE) - Solvent Extraction

Doxycycline Sensitive

ELISA Test Kit

Catalogue No: DXS10119A/B

Tests per kit: 96 tests

LOD Key

Fh Fish **Sh** Shrimp

Assay	LOD (ppb)		Compound	%CR
Doxycycline	14.00	Fh	Doxycycline*	100
	14.00	Sh	Oxytetracycline	>100
			4-epioxytetracycline	>100
			Tetracycline	>100
			4-epitetracycline	>100
			Rolitetetracycline	>100
			Chlortetracycline	>100
			Demeclocycline	>100
			4-epichlortetracycline	87
			Methacycline	48

*Each LOD standardised to this compound

Enrofloxacin/Ciprofloxacin

ELISA Test Kit

Catalogue No: EC3473

Tests per kit: 96 tests

LOD Key

T Tissue

Assay	LOD (ppb)		Compound	%CR
Enrofloxacin/Ciprofloxacin	0.75 ⁺	T	Enrofloxacin*	100
	0.5 ⁺⁺	T	Ciprofloxacin	105

*Each LOD standardised to this compound

⁺ Sample Method One

⁺⁺ Sample Method Two

Ethinylestradiol

ELISA Test Kit

Catalogue No: RLS9225

Tests per kit: 96 tests

Assay	Compound	%CR
Ethinylestradiol	Ethinylestradiol	100
	Ethinylestradiol 3-Glucuronide	49

Ergot Alkaloids

ELISA Test Kit

Catalogue No: EA3491

Tests per kit: 96 tests

Ergot alkaloids accessory kit (EA10408)

Assay	LOD (ppb)		Compound
Ergot Alkaloids*	50	CB	Ergotamine
	50	WM	Ergosine
			Ergosinine
			Ergocristine
			Ergocristinine
			α-and-β-Ergocryptine (sum)
			α-and-β-Ergocryptinine (sum)
			Ergocornine
			Ergocorninine
			Ergotaminine
			Ergometrine
			Ergometrinine

*Results are reported as the sum of the compounds listed

LOD Key

CB Cereal Based Feed

WM Wheat, Spelt, Rye, Oats
and Barley Milling Products.

Malachite Green FAST

ELISA Test Kit

Catalogue No: MG10108A/B

Tests per kit: 96 tests

Assay	LOD (ppb)		Compound	%CR
Malachite Green	0.50	Cf	Malachite Green*	100
	0.50	PS	Leucomalachite Green**	100
			Crystal Violet	82
			Leucocrystal Violet**	82
			Brilliant Green	<1

*Each LOD standardised to this compound

**after oxidation

LOD Key

Cf Catfish

PS Prawn / Shrimp

Nitrofurans FAST

ELISA Test Kit

Tests per kit: 96 tests

LOD Key

PS Prawn / Shrimp

Assay	LOD (ppb)		Compound	%CR
AOZ (NF3465)	0.06	PS	4' NBIAOZ*	100
			Furazolidone	1.61
AMOZ (NF3462)	0.08	PS	4' NBIAMOZ*	100
			Furaltadone	36.56
AHD (NF3463)	0.08	PS	4' NBIAHD*	100
			Nitrofurantoin	14.05
SEM (NF3461)	0.25	PS	4' NBISEM*	100
			Nitrofurazone	<1

*Each LOD standardised to this compound

Quinolones

ELISA Test Kit

Catalogue No: QL3454

Tests per kit: 96 tests

LOD Key

M Milk **T** Tissue

Assay	LOD (ppb)		Compound	%CR
Quinolones	0.25	M	Norfloxacin*	100
	6.00	T	Nadifloxacin	429
			Rufloxacin	401
			Danofloxacin	324
			Enrofloxacin	300
			Ciprofloxacin	166
			Levofloxacin	138
			Ofloxacin	120
			Pefloxacin	120
			Prulifloxacin	109
			Difloxacin	65
			Sarafloxacin	59
			Enoxacin	59
			Marbofloxacin	43
			Fleroxacin	34
			Clinafloxacin	31
			Lomefloxacin	31
			Balofloxacin	14
			Orbifloxacin	14
			Gatifloxacin	9
			Moxifloxacin	8
			Tosufloxacin	8
			Oxolinic acid	5.3
			Pazufloxacin	3
			Pipemidic acid	3
			Flumequine	1
			Sparfloxacin	1

*Each LOD standardised to this compound

Phenylbutazone

ELISA Test Kit

Catalogue No: PB3456

Tests per kit: 96 tests

LOD Key

S Serum **T** Tissue

Assay	LOD (ppb)		Compound	%CR
Phenylbutazone	2.01	S	Phenylbutazone*	100
	1.00	T	Oxyphenbutazone	156

*Each LOD standardised to this compound

Stilbenes

ELISA Test Kit

Catalogue No: SJ2152

Tests per kit: 96 tests

LOD Key

T Tissue **S** Serum **B** Bile
U Urine

Assay	LOD (ppb)		Compound	%CR
Stilbenes	0.25	T	Hexestrol*	100
	0.10	S	Diethylstilbestrol Glucuronide	85
	0.10	B	Diethylstilbestrol	43
	0.10	U	Dienestrol	20

*Each LOD standardised to this compound

Ractopamine

ELISA Test Kit

Catalogue No: RT3451

Tests per kit: 96 tests

LOD Key

US Urine (Solvent Extraction) **F** Feed
UR Urine (Rapid Screen) **TR** Tissue (Rapid)
MP Milk Powder **TS** Tissue (Rapid Sensitive)
M Milk **T** Tissue (with Deconjugation)

Assay	LOD (ppb)		Compound	%CR
Ractopamine	1.50	US	Ractopamine*	100
	0.60	UR		
	0.15	MP		
	0.07	M		
	2.00	F		
	0.50	T		
	0.10	TS		
	5.00	TR		

*Each LOD standardised to this compound

Oxytetracycline Sensitive

ELISA Test Kit

Catalogue No: OXS10118A/B

Tests per kit: 96 tests

LOD Key

Fh Fish **PS** Prawn/Shrimp **H** Honey

Assay	LOD (ppb)		Compound	%CR
Oxytetracycline	6.00	Fh	Oxytetracycline*	100
	6.00	PS	4-epioxytetracycline	100
	3.92	H	Tetracycline	>100
			4-epitetracycline	>100
			Rolitetetracycline	>100
			Chlortetracycline	98
			Demeclocycline	79
			Doxycycline	44
			4-epichlortetracycline	38
			Methacycline	21

*Each LOD standardised to this compound

Sulphadiazine

ELISA Test Kit

Catalogue No: SZ2147

Tests per kit: 96 tests

LOD Key

T Tissue **M** Milk **S** Serum
U Urine **E** Egg

Assay	LOD (ppb)		Compound	%CR
Sulphadiazine	5.00	T	Sulphadiazine*	100
	5.00	M	Acetyl-Sulphadiazine	92
	5.00	S		
	5.00	U		
	5.00	E		

*Each LOD standardised to this compound

Tetracycline Sensitive

ELISA Test Kit

Catalogue No: TCS10117A/B

Tests per kit: 96 tests

LOD Key

T Tissue **H** Honey

Assay	LOD (ppb)		Compound	%CR
Tetracycline	3.00	T	Tetracycline*	100
	2.00	H	4-epitetracycline	87
			Rolitetetracycline	67
			4-epioxytetracycline	52
			Oxytetracycline	52
			Chlortetracycline	51
			Demeclocycline	41
			Doxycycline	23
			4-epichlortetracycline	20
			Methacycline	11

*Each LOD standardised to this compound

Trenbolone

ELISA Test Kit

Catalogue No: TB2106

Tests per kit: 96 tests

LOD Key

T Tissue **U** Urine **B** Bile
S Serum

Assay	LOD (ppb)		Compound	%CR
Trenbolone	0.25	T	Trenbolone (17 β)*	100
	0.50 (RS)	U	Trenbolone (17 α)	70
	0.15 (C18)	U		
	1.00	B		
	1.00	S		

*Each LOD standardised to this compound

(RS) - Rapid Screen

(C18) - C18 Method

Zilpaterol

ELISA Test Kit

Catalogue No: ZP3483

Tests per kit: 96 tests

LOD Key

T Tissue

Assay	LOD (ppb)		Compound	%CR
Zilpaterol	0.08	T	Zilpaterol*	100

*Each LOD standardised to this compound

Immunoaffinity Columns

Growth Promoters (Multi-Analyte)

Immunoaffinity Column

Catalogue No: GP1821

Tests per kit: 50 tests

Compounds	Binding Capacity	Pack Size
Boldenone	25 ng	5 Columns
Zeranol	25 ng	
Ractopamine	25 ng	
Corticosteroids	25 ng	
19-Nortestosterone	25 ng	
Stilbenes (Hexestrol)	25 ng	
Trenbolone	25 ng	
Stanozolol	25 ng	
β -Agonists (Clenbuterol)	25 ng	

Stilbenes

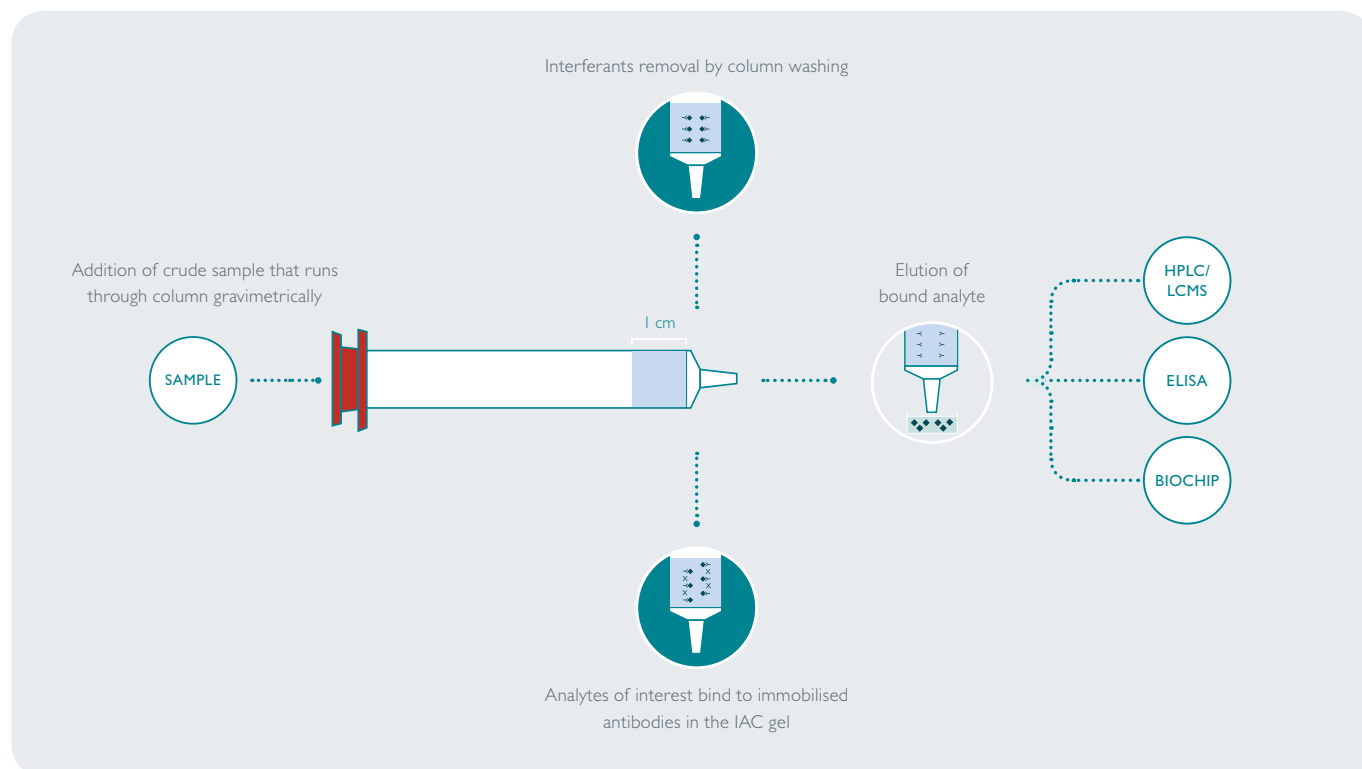
Immunoaffinity Column

Catalogue No: SJ2154

Tests per kit: 50 tests

Compounds	Binding Capacity	Pack Size
Diethylstilbestrol	50 ng	5 Columns
Hexestrol	50 ng	
Dienestrol	50 ng	

Immunoaffinity Column Procedure



Reagents

Diastase (Amylase)

Honey Reagents Kit

Manual : 25 tests Method : Colorimetric

RX misano : 25 tests Shelf Life : 1 year

Method	Catalogue No.	Sensitivity	Linearity
Manual	I32I	On request	On request
RX misano	I32I	0.9*	52.8*

*Measured in Schade Units

Calculation of Result

The absorbance of the blank is subtracted from that of the sample solution (ΔA_{620}). If the absorbance is higher than 1.0, dilute the sample with water and retest.

The Codex quotes the following: The diastase activity of honey, determined after processing and/or blending, in general not less than **8 Schade units** and in the case of honeys with low natural enzyme content not less than **3 Schade units**.

Product	Time to result
Diastase	40 minutes

HMF (Hydroxymethylfurfural)

Honey Reagents Kit

Manual : 100 tests Method : Colorimetric

RX misano : 100 tests Shelf Life : 2 years

Method	Catalogue No.	Sensitivity	Linearity
Manual	HMF6000	N/A	N/A
RX misano	HMF6000	2 mg/kg	100 mg/kg

Calculation of Result

The test is linear to HMF concentration of 100 mg/kg. Dilute samples above this concentration, i.e. 1 + 3 with ddH₂O. Multiply the result by 4.

The Codex quotes the following: The HMF content of honey after processing and/or blending must not be higher than 80 mg/kg. The European Union (EU Directive 110/2001) has fixed a HMF limit in honey of 40 mg/kg with the following exceptions: 80 mg/kg for honey coming from Countries or Regions with tropical temperatures, 15 mg/kg for honey with low enzymatic level (8-3 Schade Units).

Product	Time to result	Sensitivity
HMF	<25min	2mg/kg

*Quartz cuvette required for test (not included)

Additional extra - Sodium Sulfite - Sigma Aldrich (13438)

Glucose/Fructose

Honey Reagents Kit

Manual : 85 tests

Method : UV

RX misano : 157 tests

Shelf Life : 15 months

Method	Catalogue No.	Sensitivity	Linearity
Manual	N/A	N/A	N/A
RX misano	GF2635	0.3 g/l	7.5 g/l

Calculation of Result

Fructose content = Total sugars – Glucose content (Work out second value as a percentage of total value) Results are calculated in g/100g.

Optimum glucose/fructose content is **> 70% of total honey constituents**

Product	Time to result
Glucose	6 minutes
Fructose	22 minutes
Total Sugars	16 minutes

Linearity	Sensitivity	Precision	
		Intra Assay	Inter Assay
7.5g/l	0.3g/l	<5%	<7.5%

Instrumentation





Evidence MultiSTAT



Using our revolutionary Biochip Array Technology (BAT), the Evidence MultiSTAT is an automated analyser that enables the onsite screening for up to 130 contaminants in under 30 minutes from a single sample of milk. Designed to meet the needs of the global dairy industry, our patented multi-analyte testing platform can be utilised in any setting including dairy processors, surveillance programmes, low throughput laboratories and farm level testing.

Catalogue No. - EV4115

The Process





Revolutionising Testing

MultiSTAT offers a complete profile over 4 residue groups (antibiotics, mycotoxins, anti-inflammatories and anti-parasitic drugs).



Quick, Accurate Results

From sample entry to results in 3 steps and analysis completed in under 30 minutes the MultiSTAT is a quick reliable option for accurate sample profiling.



Fully Automated

MultiSTAT offers rapid, fully automated and highly accurate results from a single sample for a complete profile, with results generated with less than 60 seconds of operator involvement.



Easy to Use Software

The easy to use, step by step software means no laboratory experience is necessary when using the machine.

Technical Snapshot

Analyser Description	Fully automated Biochip Array Analyser
Dimensions	585 (H) x 535 (D) x 570 (W) mm
Weight	48kg / 106lbs
Biochip Format	Cartridge based system – assay reagents sealed in a pre-filled cartridge
Data Backup Methods	Data export functionality
Sample Loading	Single cartridge loading bay
Measurement Principal	Competitive techniques with chemiluminescent reaction

Evidence Investigator



The Evidence Investigator is a compact, semi-automated benchtop analyser. Utilising the revolutionary Biochip Array Technology (BAT), the Evidence Investigator is a multi-analyte quantitative analyser. Using BAT, the Evidence Investigator ensures screening food for drug residues is accurate and efficient, offering laboratories a screening result with excellent correlation with LC-MS/MS.

Catalogue No. - EV3602

The Process

User Steps



Add assay reagents and samples to Biochips



Place up to 54 Biochips in to thermoshaker



Wash Biochips and tap to dry prior to imaging

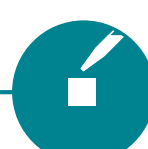
Analyser Steps



Test results reported



Biochip loaded into image box and chemiluminescence measured



Add signal reagent to each Biochip and load into the analyser



On Board Data Analysis

No manipulation of results is required, reducing scope for operator error. The Evidence Investigator provides excellent sensitivity with a quantitative concentration result (ppb) for each analyte.



Image Processing

The analyser uses unique image processing software to translate the Relative Light Units (RLU) generated from the chemiluminescent reactions into an analyte concentration.



Multi Matrix Capabilities

The Evidence Investigator has been validated across various matrices including tissue, feed, honey, aquaculture and milk, making it the perfect solution for any laboratory.



Multiplex Technology

Using multiplex technology the Evidence Investigator can provide simultaneous detection for a wide range of analytes from a single sample, saving you time getting the results you need.

Technical Snapshot

Analyser Description	Semi-automated Biochip Array analyser
Dimensions	750 (h) x 480 (d) x 420 (w) mm
Weight	24kg / 52.9lbs
Biochip Format	1 x Biochip carrier (Holds 9 individual Biochips)
Maximum Throughput	96 samples in 2 hours 30 minutes*
Accreditation	Internally accredited to full CE & UL certification
Measurement Principal	Competitive techniques with chemiluminescent reaction

*can be increased with multiple thermoshakers (Cat No. EV700-997)

RX misano



Designed with the user in mind, the RX misano incorporates a responsive touch screen display, test menu personalisation and the ability to upload new parameters via USB. With an increase in automatic features, the RX misano also guarantees the precision and accuracy of results, improving the overall efficiency and versatility of enzymatic honey analysis.

Catalogue No. - RX6018

The Process*

User Steps



*Protocol example shown for Glucose/Fructose Analysis.



Accurate

The RX misano boasts increased accuracy compared to other methods producing results within +/- 1% of UKAS accredited reference materials.



9 Wavelengths

The RX misano comes with 2 detection system options; the halogen only option covers 340, 420, 520, 546, 600, 620, 660 and 700nm with the additional 280nm wavelength available for the analysis of phenols and HMF.



Smart Monitoring System

The RX misano automatically checks for air bubbles, as well as monitoring environmental conditions to prevent overheating. The analyser is also highly efficient, powering down when temperatures required for analysis reach their desired levels.



User Friendly

With user friendly features such as a touch screen, favourites menu, on screen prompts and the ability to export data in excel format, the RX misano makes in-house analysis simple and effective.

Technical Snapshot

Analyser Description	Semi-automated, flow cell based, bench-top analyser
Dimensions	305 (h) x 331 (d) x 235 (w) mm
Weight	6kg / 13.2lbs
Accreditation	CE
Assay tests	Absorbance, I-Point, 2-Point, Rate A, I-PT-S Blank, Hue, Colour, HMF
Detection principal	Halogen, 340, 420, 520, 546, 600, 620, 660 & 700nm. LED 280nm
Calibration Principal	K-Factor, Linear, Point to Point, Spline, Log-Logit
Light source	Halogen tungsten lamp and 280nm LED (optional)

Instrument Packages

Evidence Investigator Package (EV3602)

Randox Food Diagnostics provides a complete package to use Biochip Array Technology from point of sale.



Evidence Investigator



1 Year Warranty



Evidence Investigator Service Kit



PC & Imaging Software



Barcode Scanner



Thermoshaker



Full Training & Installation

RX misano Package (RX6022)

The RX misano package was developed to reduce costs and provide a smooth transition for businesses bringing enzymatic testing in-house.



RX misano analyser
(ordered separately as RX6017 or RX 6018 for HMF Testing)



1 Year Warranty



Pipettes, pipette tips & cuvettes



Quartz Cuvette



Full Training & Installation



Preferred kit of choice for induction / training purposes



Customer Support

Local Engineers. Global Coverage.

Randox Food Diagnostics provide customers with an unrivalled support service. A team of highly trained specialists are on-hand to deal with any technical and service issues you may have.



Global Offices

We have 25 international offices acting as direct points of contact for customers.



Technical Distributors

We have official Randox Food Diagnostics technical distributors in over 100 countries.



50

50 Specialists

We have 50 engineers and technical support specialists placed around the world to ensure an efficient response to customer requests.



Aftercare

We offer the ultimate after-care support with tailored service packages to suit your available budget.

700+

700+ Scientists

We have 700+ scientists placed around the world, dedicated to providing a quality product offering.

Accessories

Centrifuge Rotina 320R (with rotor and adaptors)

Catalogue No: RFD8305

- High RCF
- High Capacity (max 4x30 ml, max 24x15 ml)
- Extremely short run up and down times
- Fast cool function



Centrifuge Rotina 380R (with rotor and adaptors)

Catalogue No: RFD8306

- High Capacity (max 20x30 ml, max 28x15 ml)
- High RCF up to 16,504 for 50 ml tubes
- Infinitely variable adjustment from -20°C to +40°C (or -4°F to +104°F)
- Stand by cooling



Duo Plus Package Mivac

Catalogue No: RFD8347

- Suitable for use with a wide range of solvents
- Rotors are easily interchangeable
- A mivac SpeedTrap can also be purchased to recover the waste solvent
- Samples are spun in a centrifuge, thus preventing the evaporating sample boiling over



Incubator

Catalogue No: RFD8323

- Bench top heated 60L incubator
- Temperature range from ambient to 250°C
- Chamber is jacketed/convection heating
- Lab tracer software/data log via PC



Magnetic Stirrer

Catalogue No: RFD8322

- Glass ceramic top which has excellent chemical & template resistance
- Thermal properties allow very high plate temperatures while ensuring the edges stay cooler
- White surface ensures good visibility
- Surface is easy to clean



pH Meter

Catalogue No: RFD8307

- 3 decimal place resolution
- 1,2 and 3 point calibration
- On board memory for results display and storage
- Glass combination pH electrode, ATC probe, electrode holder, 4,7 and 10 pH buffer sachets supplied



Rollers

Catalogue No (6 Roller): RFD8309 | Catalogue No (9 Roller): RFD8309

- Rolling action with gentle elevation
- Analogue fixed speed model
- Six roller or nine roller design
- Designed for continuous quiet operation



Thermoshaker

Catalogue No: EV700-997

- Holds 6 biochip carriers
- Provides optimum heating environment for samples
- Heated lid provides faster heat-up times
- External Digital Temperature Reader



Vortex

Catalogue No: RFD8308

- Variable speed control between 200 & 2500 rpm
- Intermittent or continuous mode
- Stable low profile body
- Robust diecast construction



Waterbaths SUB Aqua

Catalogue No (18 litre) : RFD8311 | Catalogue No (26 litre) : RFD8312

- Sub Aqua dual 5 litre & 12 litre Cat No RFD8313
- Supplied with lids and base trays



RX misano Incubator

Catalogue No A702-496

- Required for running samples on RX misano analyser



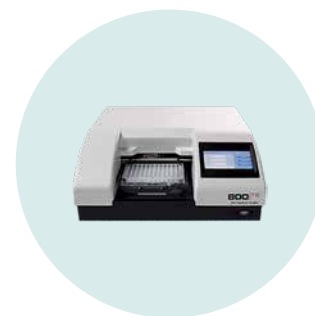
Accessory Kits

Cat No.	Product Type
AMC5036	Antimicrobial Array III Control (3x1ml)
EV3724	Feed Preparation Kit
EV3776	Milk Preparation Kit
EA10408	Ergot Alkaloids Accessory Kit



Miscellaneous

Cat No.	Product Type
RFD8300	800 TS Microplate Reader
RFD8301	50 TS Microplate Washer
RFD8302	Gen5 software
RFD8303	Absorbance test plate
RFD8324	Wash bottles 500 ml (pack of five)
RFD8339	Timer 4 channel with alarm
A200-163	Halogen Bulb (12v 20w)
EV701-024	Printer



Pipettes

Cat No.	Product Type
RFD8314	Pipette 2-20 µl
RFD8315	Pipette 20-200 µl
RFD8316	Pipette 100-1000 µl
RFD8317	Multichannel pipette 8 channel 30-300 µl
RFD8318	Pipette filler
RFD8328	10 ml plastic disposable pipette (50 per bag)
RFD8329	Blue pipette tips (200-1000 µl) (250 per bag)
RFD8330	Yellow pipette tips (5-200 µl) (500 per bag)
RFD8340	Glass pipettes 1 ml (pack of five)
RFD8341	Glass pipettes 5 ml (pack of five)
RFD8342	Glass pipettes 10 ml (pack of five)
RFD8343	Glass pipettes 25 ml (pack of five)



Tubes

Cat No.	Product Type
RFD8326	30 ml sterilin tubes (50 per bag)
RFD8327	1 ml eppendorf tubes (1000 per bag)
RFD8345	Glass test tubes 16x100 mm (1000 per box)



Notes



1,000+

laboratories using Randox
Food Diagnostics technology

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