

Introducing advanced
drug residue testing

RANDOX

Test With Confidence™

IDEXX

Exclusive distributors of Randox Food Diagnostics



IDEXX

RANDOX
FOOD DIAGNOSTICS

IDEXX is the exclusive distributor of Randox Food Diagnostics, providing tests and tools to ensure the safe supply of finished goods to food industries throughout North America. In a natural extension of the company's work to provide efficient health management strategies for production animals; IDEXX now offers premium quality testing for meat, aquaculture and feed.

Customers have always relied on IDEXX for leading-edge testing, technology and service. We back up our top-quality diagnostics with IDEXX Customer Service and a technical support team that can supply the answers you need quickly, confidently and cost-effectively.

The ability to provide advanced immunoassay platforms from Randox Food Diagnostics for quality testing of finished goods is one of the many ways IDEXX gives customers confidence in testing.

Safety from production to shelves

Pharmaceuticals play an important role in reducing mortality and improving the production of meat, seafood and feed. Specific compounds are used to enhance growth and support animal and seafood health by preventing or treating for parasites and other infections.

As an exclusive distributor of Randox Food Diagnostics, IDEXX provides reliable and economical testing methods to monitor these medications. This helps food industries ensure that finished goods meet safe levels of antimicrobials, growth-promoting compounds, anthelmintics, coccidiostats and triphenylmethane dyes.



The benefits of biochip technology and the Evidence Investigator®

- » Higher throughput
 - 45 samples assessed in an average of 2.5 hours
- » Excellent sensitivity
- » Quantitative concentrations (ppb) for each analyte
- » Extensive menu of drug residue tests
- » Multiple results from a single sample
- » Significant cost savings compared to confirmatory methods
- » Comes complete with Evidence Investigator®, PC, software, thermoshaker, biochip carrier and bar code scanner
- » Simple sample preparation



The Evidence Investigator process and package from IDEXX



1 Adding reagents

Multiple results can be obtained simultaneously from as little as 25 μ L of sample. Up to 45 samples and 9 calibrators can



2 Using thermoshaker

The customized thermoshaker provides the optimum heating



3 Washing biochips

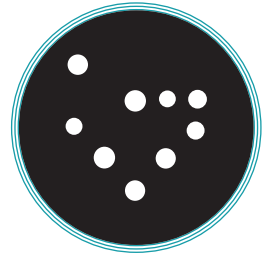
The washing method is quick and easy, completed over a



4 Loading carrier

Signal reagent is added to each biochip before imaging.

It takes only 2 minutes for the charge-coupled device (CCD) camera to image each biochip carrier.



5 Reading results

The light signals generated from each of the discrete test regions on the biochip are



Evidence Investigator®
biochip imaging module



Antimicrobial Array I Plus (Catalog Number LI 1047060)

Assay	Compound	Specificity (%CR)	LOD (ppb)
Sulphadimethoxine	sulphadimethoxine	100	6.5 ○
Sulphadiazine	sulphadiazine	100	3 ○
Sulphadoxine	sulphadoxine	100	3.2 ○
Sulphamethizole	sulphamethizole	100	3.2 ○
	sulphachlorpyridazine	13.3	
Sulphachlorpyridazine	sulphachlorpyridazine	100	2 ○
Sulphamethoxypyridazine	sulphamethoxypyridazine	100	2 ○
	sulphaethoxypyridazine	56	
Sulphamerazine	sulphamerazine	100	2 ○
Sulphisoxazole	sulphisoxazole	100	2 ○
Sulphathiazole	sulphathiazole	100	2 ○
	sulphadiazine	6.2	
Sulphamethazine	sulphamethazine	100	3.2 ○
Sulphaquinoxaline	sulphaquinoxaline	100	2 ○
Sulphapyridine	sulphapyridine	100	3.2 ○
	sulphasalazine	12.9	
Sulphamethoxazole	sulphamethoxazole	100	1.6 ○
	sulphamethizole	92	
	sulphachlorpyridazine	12.1	
Sulphamonomethoxine	sulphamonomethoxine	100	10 ○

Antimicrobial Array II (Catalog Number LI 1047053)

Assay	Compound	Specificity (%CR)	LOD (ppb)
Quinolones	norfloxacin	100	5.0 ○
	pefloxacin	84	4.5 ◆
	enrofloxacin	76	
	ciprofloxacin	59	
	ofloxacin	57	
	pipemidic acid	36	
	floxacin	32	
	levofloxacin	32	
	nadifloxacin	27	
	orbifloxacin	23	
	danofloxacin	20	
	marbofloxacin	16	
	oxolinic acid	12	
	difloxacin	8	
	pazufloxacin	7	
	sarafloxacin	6	
	enoxacin	54	
Ceftiofur	ceftiofur	100	4.6 ○
	desfuroy-ceftiofur	92	3.3 ◆
Thiamphenicol	florphenicol	100	1.3 ○
	thiamphenicol	53	0.7 ◆
Streptomycin	streptomycin	100	14.0 ○
	dihydrostreptomycin	182	7.0 ◆
Tylosin	tylosin	100	0.9 ○
	tilmicosin	37	0.5 ◆

Antimicrobial Array III (Catalog Number LI 1047003)

Assay	Compound	Specificity (%CR)	LOD (ppb)
AOZ	4-np-aaz	100	0.06 ○
	furazolidone	8	0.06 △
AMOX	4-np-amox	100	0.08 ○
	furaltadone	41	0.08 △
AHD	4-np-ahd	100	0.08 ○
	nitrofurantoin	42	0.08 △
SEM	4-np-sem	100	0.4 ○
	nitrofurazone	14	0.2 △

Zilpaterol (Catalog Number LI 1047069)

Assay	Compound	Specificity (%CR)	LOD (ppb)
Zilpaterol	zilpaterol	100	0.08 ○

Sample preparation—Tissue (○)

Acetonitrile/Methanol extraction

Growth Promoter Multiple Matrix Screen (Catalog Number LI 1047000)

Assay	Growth Promoter	Specificity (%CR)	LOD (ppb)
Beta Agonists	clenbuterol	100	0.2 ◆
	mapenterol	113	0.2 ○
	carbuterol	104	8 ●
	salbutamol	70	
	cimbuterol	54	
	mabuterol	41	
	terbutaline	22	
	methyl-clenbuterol	20	
	pirbuterol	15	
Boldenone	17β-boldenone	100	0.8 ◆
	1,4 androstadiene-3,17-dione	55	0.5 ○
	17α-boldenone	15	140 ●
	boldenone glucuronide	15	
Corticosteroids	dexamethasone	100	0.2 ◆
	betamethasone-21-acetate	133	0.4 ○
	flumethasone	57	10 ●
	betamethasone	31	
	dexamethasone-21-acetate	27	
Nandrolone	19-nortestosterone (17β)	100	2 ◆
	19-nor-4-androstene-3,17-dione	143	1.4 ○
	trenbolone acetate	109	170 ●
	17β-trenbolone	70	
	19-nortestosterone	55	
	(17β)-sulphate		
	19-nortestosterone (17α)	27	
	19-nortestosterone β-glucuronide	26	
Ractopamine	ractopamine	100	0.2 ◆
	ractopamine hydrochloride	100	0.3 ○
Stanozolol	stanozolol	100	0.4 ◆
	16β-hydroxystanozolol	45	0.4 ○
Stilbenes	hexestrol	100	0.4 ◆
	diethylstilbestrol glucuronide	289	0.9 ○
	diethylstilbestrol	105	25 ●
	dienestrol	72	
Trenbolone	17β-trenbolone	100	0.4 ◆
	17α-trenbolone	21	0.1 ○
			8 ●

Ractopamine Array (Catalog Number LI 1047070)

Assay	Compound	Specificity (%CR)	LOD (ppb)
Ractopamine	Ractopamine	100	
	Ractopamine hydrochloride	100	0.1 ○

Assay	Compound	Specificity (%CR)
Lasalocid	lasalocid	100
Nicarbazin	dinitrocarbanilide	100
	nicarbazin	
Imidocarb	imidocarb	100
Toltrazuril	toltrazuril sulphone	100
	toltrazuril sulphoxide	40.7
	toltrazuril	
Maduramicin	maduramicin	100
Nifurasol Metabolite	3,5-dinitrosalicylic acid hydrazide	100
	nifurasol	
	3,5-dinitrosalicylic acid	925
Salinomycin	salinomycin	100
	narasin	130
Clopidol	clopidol	100
Monensin	monensin	100
	monensin A	89
Robenidine	robenidine	100
Decoquinat	decoquinat	100
Halofuginone	halofuginone	100

Synthetic Steroids (Catalog Number LI 1047054)

Assay	Compound	Specificity (%CR)	LOD (ppb)
17β-Clostebol	4-chloro-androsten-3,17-dione (clad)	100	0.95 ◇
	17β-clostebol	34.8	0.40 ▲
Ethinylestradiol	ethinylestradiol	100	0.41 ◇
			0.37 ▲
Gestagens	chlormadinone acetate	100	0.84 ◇
	medroxyprogesterone acetate	149.3	0.92 ▲
	megestrol acetate	105.1	
	melengestrol acetate	56.9	

Assay	Cat. No	Samples per Kit	Sample Preparation	Incubation and Assay Time	Max Total Time
Antimicrobial Array I Plus	LI1047060	45	20 min	2 hr	2 hr 20 min
Antimicrobial Array II	LI1047053	45	20 min	2 hr	2 hr 20 min
Antimicrobial Array III	LI1047003	45	3 hr 30 min	2 hr	5 hr 30 min
Zilpaterol *	LI1047069	45	1 hr 30 min	2 hr	3 hr 30 min
Coccidiostats	LI1047058	45	1 hr 30 min	2 hr	3 hr 30 min
Synthetic Steroids	LI1047054	45	3 hr	2 hr	5 hr
Growth Promoter Multiple Matrix Screen	LI1047000	45	3 hr	2 hr	5 hr

Analysis times based on 20 samples





The biochip makes it possible to test for multiple analytes simultaneously—all from a single sample.

Choices in testing technologies



Biochip array technology with the Evidence Investigator is a perfect testing tool for higher-throughput laboratories.

Based on proven enzyme-linked immunosorbent assay (ELISA) principles, the innovative feature of biochip array technology is simultaneous multi-analyte testing. Each biochip has 22 discrete test regions (DTRs) and each DTR holds an individual test. Our complete system for quantitative drug residue testing ensures reliable results that are comparable to confirmatory methods.



ELISA kits are a cost-effective screening method for meat and seafood analysis in lower-volume throughput laboratories.

ELISA kits can be used in various matrices and provide results that compare favorably with confirmatory methods.

Whatever your needs, IDEXX will help you get the most out of every sample for quality testing.

The benefits of ELISA kits from IDEXX

» Single sample preparation across various ELISA kits

- Consolidates testing, reduces labor time and cost

» Generic antibodies for several ELISAs

- Multiple analytes including quinolones and beta-lactams

» Rapid analysis

- 40 samples can be analyzed in 90 minutes

» Precision

- Intra- and inter assay agreement typically <10%

» Minimum sample preparation

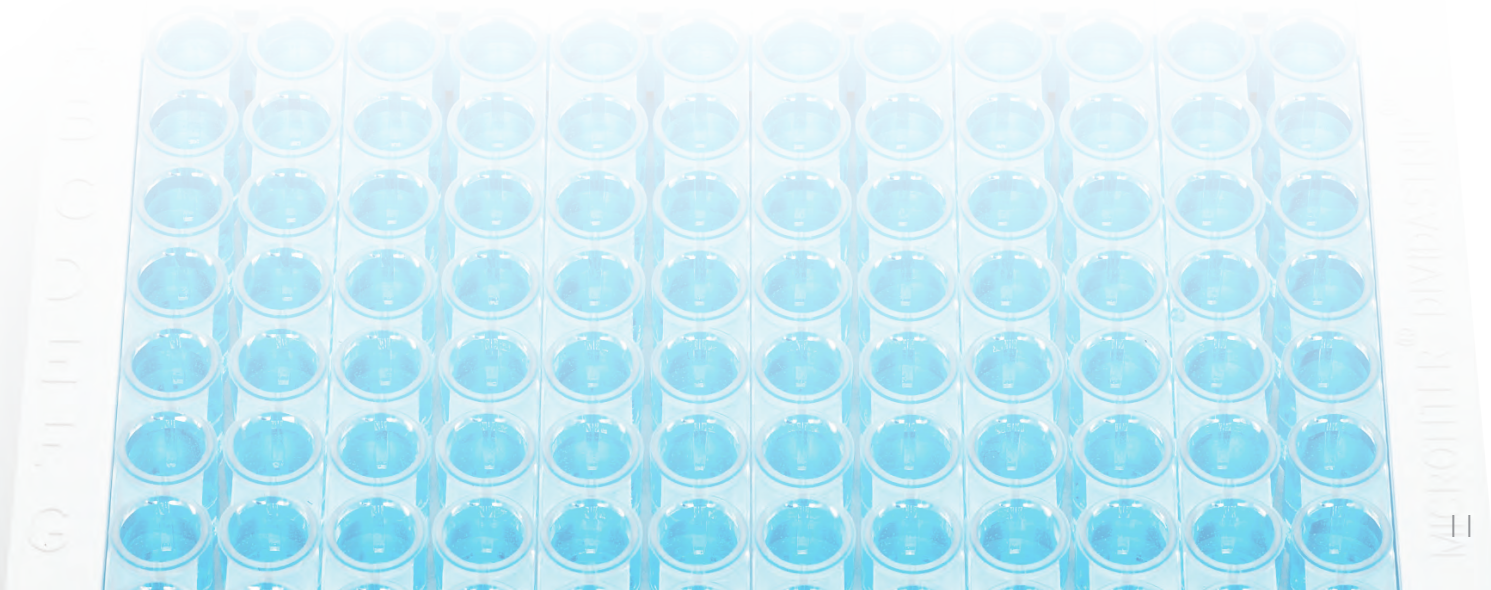
- User friendly, little technical expertise required

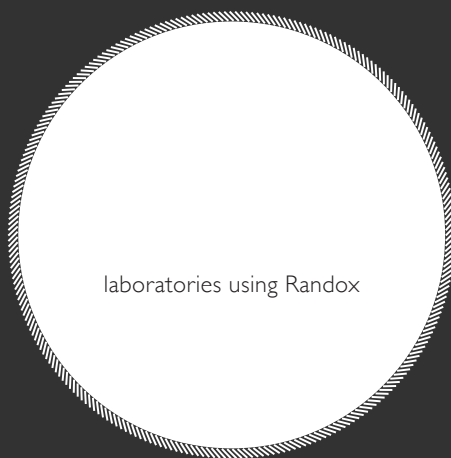
» Long shelf life

- 2-year shelf life from date of manufacture

ELISA kits

Cat. Number	Drug Residue	Format
LI 1047084	Chloramphenicol	96 tests
LI 1047103	Sulphamethoxazole	96 tests
LI 1047099	Streptomycin	96 tests
LI 1047098	Sulphaquinoxaline	96 tests
LI 1047102	Sulphadiazine	96 tests
LI 1047097	Sulphamethazine	96 tests
LI 1047082	Beta-Lactam	96 tests
LI 1047095	Quinolones	96 tests
LI 1047032	AOZ	96 tests
LI 1047033	AMOX	96 tests
LI 1047092	AHD	96 tests
LI 1047091	SEM	96 tests
LI 1047104	Trenbolone	96 tests
LI 1047093	19-Nortestosterone/Trenbolone	96 tests
LI 1047017	Ractopamine	96 tests
LI 1047083	Clenbuterol	96 tests
LI 1047100	Beta Agonist	96 tests
LI 1047096	Stilbenes	96 tests
LI 1047107	Zeranol	96 tests
LI 1047085	Corticosteroids	96 tests
LI 1047022	Zilpaterol	96 tests





laboratories using Randox

For more information or to set up a demonstration, please contact your IDEXX representative or email **randoxdemo@idexx.com**.

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