SENSITIVITY

Family	Antibiotic	Porcine mus	cle	Bovine mus	cle	Chicken mus	cle	Salmon / Co	ley	Milk	
,		MRL (µg/kg)	ССВ	MRL (µg/kg)	CCB	MRL (µg/kg)	CCβ	MRL (µg/kg)	ССВ	MRL (µg/L)	ССВ
	Dihydrostreptomycin	500	125	500	125	-	125	-	125	200	50
	Kanamusin A	5U 100	100	100	100	-	100	50	100	100	75
Aminoglycosides	Noomycin B	500	100	500	100	500	100	500	100	150	75 25
	Paromomycin	500	250	500	500	500	500	500	500	forhid	250
	Streptomycin	500	250	500	250	-	250	-	250	200	100
	Amoxicillin	50	25	50	25	50	25	50	25	4	4
	Ampicillin	50	25	50	25	50	25	50	25	4	4
	Cefacetrile		50	-	50	-	50	-	50	125	50
	Cefalexin		3500	200	3500	-	3500	-	3500	100	1600
	Cefalonium			-	5	-		-	5	20	2,5
	Cefapirin		75	Sum = 50	50	-	50	-	50	Sum = 60	
	Desacetylcefapirin		100	50m - 50	100	-	100	-	100	54m - 66	30
	Cefazolin		100	-	100	-	100	-	100	50	20
	Cetoperazone	-	3	-	3	-	3	-	3	50	1
Is-Lactams	Cefquinome	50	50	50	50	-	50	-	50	20 100 (action fur t	20
	Desfurovleaftiafur	1000	2000	1000	2000	1000	2000	-	2000		25
	Clovacillin	200	5000	300	2000	200	50	300	50	20	50
	Dicloxacillin	300	30	300	30	300	30	300	30	30	12
	Nafcillin	-	300	300	300	300	300	-	300	30	75
	Oxacillin	300	50	300	50	300	50	300	50	30	10
	Penicillin G	50	5	50	5	50	5	50	5	4	2
	Penicillin V	25	12,5	-	12,5	25	12,5	-	12,5		4
	Piperacillin			-	5	-		-	5		
	Sulfachloropyridazine		1		1		1		1		1
	Sulfaclozine		500		500		1000		500		150
	Sulfadiazine		50		50		50		50		50
	Sulfadimethoxine		50		50		50		50		20
	Sulfadimidine		100		100		100		100		50
	Sulfadoxine		10		10		10		10		10
	Sulfaguanidine	Combined	1 20	Combined	1	Combined	1 20	Combined	1	Combined	0,5
Cultonomidor	Sulfameter	cultonamides -	5	Sulfonamidos -	20	sulfonamidos –	5	Sulfonamidos -	20	sulfonamidos -	20
Sunonannues	Sulfamethizole				1		2 1		1		2, <i>3</i> 1
	Sulfamethoxazole	100	10	100	10	100	10	100	10	100	5
	Sulfamethoxypyridazine		0,25		0,25		0,25		0,25		0,125
	Sulfamonomethoxine		10		20		10		20		10
	Sulfanilamide		50		50		50		50		20
	Sulfapyridine		0,5		0,5		0,5		0,5		0,5
	Sulfaquinoxaline		50		50		50		50		25
	Sulfathiazole		0,5		0,5		0,5		0,5		0,25
	Dapsone	5	0,2	5	0,2	5	0,2	5	0,2	5	0,1
	Spiramycin	250	250	200	200	200	200	-	200	200	200
Magralidas	Tilmioosin	1200	1200	400	1200	- 75	1200	-	1200	forbid.	500 1 2 5
wacrondes	Tulocin A	50 100	50 10	50	10	100	50 10	50	10	50	10
	Tylvalosin	50	125	50	125	-	125	-	125	-	20
	Clindamycin	-	150	-	500	-	300		500		100
Lincosamides	Lincomycin	100	25	100	25	100	25	100	25	150	20
Polymyxin	Colistin	150	150	150	150	150	150	150	150	50	25
	Chlortetracycline	100	25	100	100	100	100	100	100	100	25
Tetracyclines	Demeclocycline		50	-	100	-	100	-	100		50
	Doxycycline	100	25	100	25	100	25	100	25	forbid.	12,5
	Methacycline		25	-	50	-	50	-	50		25
	Oxytetracycline	100	50	100	100	100	100	100	100	100	50
	Tetracycline	100	50	100	50	100	50	100	50	100	75
	Cinoxacin		800	-	200	-	800	-	900		50
	Eproflovacin	Sum = 100	10	Sum = 100	20	Sum = 100	20	Sum = 100	20	Sum = 100	2 1
(F)Quinolones	Dapofloxacin	100	5 250	200	200	200	כ ר∩כ	100	200	30	30 T
	Difloxacin	400	50	400	50	300	50	300	50	forbid.	25
	Enoxacin	-	50	-	50	-	50	-	50	-	5
	Flumequine	200	800	200	2000	400	2000	600	2000	50	50
	Lomefloxacin		15	-	15	-	15	-	15		3
	Marbofloxacin	150	20	150	20	-	20	-	20	75	2
	Nalidixic acid		2000	-	2000	-	2000	-	2000		50
	Norfloxacin		2,5	-	10	-	10	-	10		2
	Ofloxacin		15	-	15	-	15	-	15		1
	Oxolinic acid	100	800	100	1000	100	1000	100	1000	forbid.	62,5
	Petloxacin		10	-	20		20	-	20		2
	Sarafloxacin		125	-	125		125	-	125 Tha		5
Phenicols	Electonical	0,3	- 0,1	0,3	0,1	0,3	- U,1 EQ	0,3	ומנו האד	0,3	20
	Florfenicol Amine	Sum = 300	1.00	Sum = 200	100	Sum = 100	1.00	1000	Thd	forbid.	50
	Thiamphenicol		50	50	35		35	50	Thd		25
	Tiamulin	100	25	-	25	100	25	-	100	-	12,5
Pleuromutilins	Valnemulin	50	50	-	50	-	50	-	50		10

Simple multiplex and multimatrix solution for the simultaneous screening of > 80 antibiotic residues



WELL SAMPLE



Contact us for more informations : Phone +32 4 252 66 02 | info@unisensor.be | www.unisensor.be

BEAD PLEX Antibiotics



ASSAY PRINCIPLE

BEADYPLEX[™] combines simultaneous competitive immunoassays in the same single reaction. The test uses unique reagents comprising mixtures of antibiotic-conjugated beads (assay competitors), broadrange antibiotic binders (receptors and antibodies), and fluorescent secondary binders. Each bead, individually encoded by its specific size and internal fluorescence, in combination with a primary binder, enables the detection of well-defined groups of antibiotics.

In a first assay step the beads and primary binders are incubated with the sample extract. In the second assay step the labelled secondary binders detect the remaining primary binders on the beads surface, thus generating the final assay signal. The resulting "beads-binders" complexes are then characterized by the Flow Cytometer, which entails the classification of the beads by discrimination of their sizes and internal fluorescence levels, and the measurement of external fluorescence intensities.

The presence of antibiotics from a particular family is identified by a signal decrease for the corresponding encoded bead, with respect to a zero dose control sample.

BENEFITS

BROAD SPECTRUM

> 80 antibiotics from 10 families in one single test

HIGH THROUGHPUT

96 tests in microplate format

EASY PROTOCOL

Fast and easy 3-steps protocol

BROAD APPLICABILITY

Meat, fish, seafood, eggs and raw milk

The easiest tool to screen for the presence of antibiotic residues in the food chain **7**

TEST PROCEDURE

BUFFER EXTRACTION (TISSUE)*

* Milk samples require only 15 minutes centrifugation





10 ANTIBIOTIC FAMILIES TESTED / SAMPLE

Power





IMMUNOASSAY (96-MICROPLATE FORMAT)

AUTOMATIC MICROPLATE ANALYSIS



Automatic microplate reading on Flow Cytometer**, with report generation

**ACEA NovoCyte[®] 2000 recommended

	Sample Name: Sample Type:	F4:MRL3 Unknow	3 n	
	Assay Beads	Normalized Signal	Results	
	Tetracyclines	18	POS	
	β-Lactams	37	POS	
	Sulfonamides	24	POS	
	(F)Quinolones	12	POS	
	Aminoglycosides A	99	NEG	
	Aminoglycosides B	109	NEG	
	Colistin	99	NEG	
	Macrolides A	101	NEG	
1000	Macrolides B	100	NEG	
	Lincosamides	9	POS	
and a	Pleuromutilins	4	POS	
NovoSampro	Phenicols	107	NEG	
	CAP	21	POS	

PRODUCT REFERENCE

