

HOW TO USE

No sample preparation.

Just mix milk and reagents, then incubate with the EXTENSO BIOSTICK and read.



1. Mix milk and reagents



2. Incubate for 13 minutes into the Extenso Incubator DUO



3. Insert the BIOSTICK in the drawer of the DEVICE



4. Tap to start the reading

RESULTS ON THE EXTENSO DEVICE



ANALYSIS THROUGH YOUR DATA MANAGER



The EXTENSO Data Manager allows you to store, track and manage your data in your centralized environment, in the cloud or on premise.

REVOLUTIONARY MILK ANALYSIS PLATFORM

FROM RISK ANALYSIS TO DAILY SCREENING

extenso
by unisensor
DIAGNOSTIC ENGINEERING



EXTENSO is the all-in-one multiplex, fast, easy and automated solution the dairy industry needs to detect the widest range of contaminants in milk. All in the shortest possible time and providing a simple data-processing interface.

PREVENT ANTIBIOTICS FROM ENDING UP IN THE FOOD CHAIN

Residues of antibiotics in raw milk alters the efficiency of industrial processing of cheese or other fermented dairy products preparation.

Moreover, the extensive use of antibiotics is linked to the emergence of multi-resistant bacteria raising a big challenge for both animal and human health.

BENEFITS



MULTIPLE

Detect more than 100 antibiotic residues and toxins in milk in one single test.



FLEXIBLE

Whether for monitoring or for a release plan, choose any combination of contaminants to test amongst 131071 possibilities.



RAPID

Only 13 minutes to get your results. EXTENSO helps you to take immediate action.



CONNECTED

Remote access, multiple data export options, full traceability and automated actions.

START FROM MONITORING AND...
DETERMINE THE ANTIBIOTIC RISK PROFILE
THEN ADOPT A SPECIFIC SCREENING PLAN

CHOOSE YOUR CUSTOM CONFIGURATION

CHANNELS							
AFLA		COLI		QUINO	X	TETRA	X
AZINE	X	ERYTHRO	X	SDX		TYLO	
BETA	X	GENTA		SPIRA			
CAP		LINCO		STREPTO			
CEFA		NEO		SULFA	X		

Define your own surveillance plan: check and pay only for the channels corresponding to the contaminants you wish to detect in your sample.

EXTENSO IS VALIDATED AND CERTIFIED

ILVO
Flanders Research Institute for
Agriculture, Fisheries and Food

fssai
FOOD SAFETY AND STANDARDS
AUTHORITY OF INDIA
Inspiring Trust, Assuring Safe & Nutritious Food
Ministry of Health and Family Welfare, Government of India



EXT 39/01-10/2018
ALTERNATIVE ANALYTICAL METHODS
FOR AGRIBUSINESS
<http://nf-validation.afnor.org/en>

PRODUCT REFERENCES

EXTENSO ASSAY

- 6 CHANNELS
- 12 CHANNELS
- 17 CHANNELS



APP075 EXTENSO DEVICE



APP027 EXTENSO INCUBATOR DUO



unisensor
DIAGNOSTIC ENGINEERING

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Reseller

MKT152-2019-11-29

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DIAGNOSTIC ENGINEERING

SENSITIVITY

CHANNEL ID	FAMILY NAME OF THE COMPOUNDS	COMPOUNDS DETECTED	TEST DETECTION (ng/mL ; ppb) [Not validated by ILVO]	EU-MRL/MRPL in ng/ml - ppb (codex) [US safe level]	
AFLA	MYCOTOXINS	Aflatoxin-M1	0,4	0,05 [0,5]	
		Aflatoxin-B1	[0,2-0,5]	/	
AZINE	MELAMINE	Melamine	30	1000-2500	
		Ammeline	600	/	
	PYRIMIDINE DERIVATIVES	Baquiloprim	250	30	
BETA	BETALACTAMS - PENICILLINS	Trimethoprim	200	50	
		Amoxicillin	3	4 (4)	
		Ampicillin	4	4	
		Benzylpenicillin (Pen G)	2	4 (4)	
		Phenoxyethylpenicillin (Pen V)	4	/	
		Cloxacillin	12	30	
		Nafcillin	350	30	
		Dicloxacillin	8	30	
		Oxacillin	16	30	
		Penethamate	[55]	4	
		Piperacillin	[0,5-1]	/	
		Ticarcillin	[10-15]	/	
		Aspoxicillin	[1-2]	/	
		Sulbactam	[100-1000]	/	
		Tazobactam	[1000]	/	
		BETALACTAMASE INHIBITORS	Clavunalic acid	Not detected	200
	BETALACTAMS - CEPHALOSPORINS	Cefalonium	3	20	
		Cefazolin	9	50	
		Cefoperazone	3	50	
		Cefquinome	14	20	
		Ceftiofur	8	100** (100)	
		Desfuroylceftiofur	60		
		Cephapirin	4	60**	
		Desacetylcephapirin	16		
		Cefacetile	9	125	
		Ceftizoxime	200	/	
		Cefuroxime	90	50	
		Ceftriaxone	6	/	
	CAP	PHENICOLS	Chloramphenicol	0,6	n.f.u. (0,3)
			Chloramphenicol succinate	[0,6]	/
			Thiamphenicol	[5000]	50
			Florphenicol(amine)	[5000]	n.f.u.
	CEFA	BETALACTAMS - CEPHALOSPORINS	Cefalexin	4	100
		Cefadroxil	4	/	
COLI	POLYMYXINS	Colistin	30	50 (50)	
ERYTHRO	MACROLIDES	Erythromycin	30	40	
		Gamithromycin	Not detected	n.f.u.	
		Oleandomycin	Not detected	/	
		Roxithromycin	700	/	
GENTA	AMINOGLYCOSIDES	Gentamicin (C1, C1a, C2, C2a)	60	100 (200)	
		Kanamycin A	Not detected	150	
		Spectinomycin	Not detected	200	
		Sisomycin	175	/	
LINCO	LINCOSAMIDES	Lincomycin	80	150 (150)	
		Clindamycin	40	/	
		Pirlimycin	Not detected	100 (100)	
NEO	AMINOGLYCOSIDES	Neomycin	1000	1500 (1500)	
		Paramomycin	[4000-20000]	n.f.u.	
		Apramycin	125	n.f.u.	
QUINO	QUINOLONES	Danofloxacin	14	30	
		Enrofloxacin	14	100**	
		Ciprofloxacin	16		
		Marbofloxacin	14	75	
		Oflxacin	[<20]	/	

CHANNEL ID	FAMILY NAME OF THE COMPOUNDS	COMPOUNDS DETECTED	TEST DETECTION (ng/mL ; ppb) [Not validated by ILVO]	EU-MRL/MRPL in ng/ml - ppb (codex) [US safe level]
		Difloxacin	16	/
		Enofloxacin	[<20]	/
		Lomefloxacin	[<30]	/
		Flumequine	25	50
		Norfloxacin	20	/
		Pefloxacin	[<20]	/
		Orbifloxacin	[>100]	/
		Oxolonic acid	125	/
		Nalidixic acid	150	/
		Sarafloxacin	16	n.f.u.
		Cinoxacin	[<1000]	/
		Fleroxacin	[<50]	/
		Pipemidic acid	Not detected	/
		Piromidic acid	Not detected	/
Levofloxacin	tbd	/		
SDX	SULFONAMIDES	Sulfadoxine	70	100***
SPIRA	MACROLIDES	Spiramycin	80	200** (200)
		Neospiramycin	90	
STREPTO	AMINOGLYCOSIDES	Dihydrostreptomycin	150	200 (200)
		Streptomycin	175	200 (200)
SULFA	SULFONAMIDES	Sulfadiazine	3	100*** (25 for SMTZ)
		Sulfamerazin	1	
		Sulfadimethoxine	5	
		Sulfamethazine (SMTZ)	1	
		Sulfamethoxazol	100	
		Sulfaquinoxaline	4	
		Sulfamonomethoxin	2	
		Sulfamethoxyypyridazin	1	
		Sulfaethoxyypyridazin	tbd	
		Sulfazalasin	[115]	
		Sulfapyridin	1	
		Sulfacetamide	Not detected	
		Sulfachloropyridazin	8	
		Sulfaguanidin	7	
		Sulfathiazol	3	
		Sulfisoxazol	tbd	
		Sulphatrozozole	Not detected	
		Sulfamethizole	150	
		Sulfameter	2	
		Sulfamoxol	1	
	DAPSONE	Dapsone	Not detected	n.f.u.
TETRA	TETRACYCLINES	Tetracycline (TC)	70	100* (100)
		4-epimer of TC	Not detected	
		Chlortetracycline (CTC)	25	100* (100)
		4-epimer of CTC	1000	
		Oxytetracycline (OTC)	40	100* (100)
		4-epimer of OTC	1000	
		Doxycycline	10	n.f.u.
		Mynocycline	[<50]	/
		Demeclocycline	[<50]	/
		Sancycline	[<50]	/
		Amicycline	[<50]	/
		Meclocycline	[<50]	/
Methacycline	[<50]	/		
TYLO	MACROLIDES	Tylosin A	30	50 (100)
		Desmycosin	30	50
		Tilmicosin	Not detected	50
		Tulathromycin equivalents	Not detected	n.f.u.
		Tildipirosine	Not detected	n.f.u.

EXTENSO LODs can be adapted to local regulations upon request | **RUSSIA:** Decision of the Board of the Eurasian Economic Commission dated February 13, 2018 N 28 | **CHINA:** Annex No. 235 of the Ministry of Agriculture and Rural Affairs of the People's Republic of China - Maximum Residue Limits of Veterinary Drugs in Animal Foods | **USA:** Tolerance And/Or Target Testing Levels Of Animal Drug Residues In Milk (M-1-18-9 February 12, 2018) | tbd : to be determined / n.f.u : not for use in product for human consumption - not permissible taking into consideration the limit of the reference method / * : sum of the single compound and its epimer form / ** : sum of the single compound and its metabolites / *** : sum of all compounds of the family