



Analysis of antibiotic residues

In addition to their function as veterinary drugs, antibiotics can be used as antimicrobial growth promoters in livestock breeding. As a consequence of incorrect or illegal use, antibiotic drug residues in food of animal origin can remain.

Because of the potentially toxic, carcinogenic and allergic properties of antibiotic residues, contaminated food is a direct health risk for consumers. Additionally, the inappropriate use of antibiotics in animal husbandry and food production can promote multi-resistant pathogens, which pose an increasing risk for public health.

For these reasons, most countries have established Maximum Residue Limits (MRLs) and monitoring programs for antibiotic residues in food. Non-compliance with these legislations e.g. in export can lead to severe penalties.

For food industries, antibiotic residues additionally bear technological and economic risks, as they can inhibit production processes involving microorganisms and thus lead to production losses.



RIDASCREEN®/EuroProxima

ELISAs for the screening of antibiotic residues

- Quantitative results of single antibiotics or antibiotic groups
- Detect the most commonly used antibiotics
- Applications for a wide range of matrices
- Evaluation with RIDASOFT® Win.NET (RIDASCREEN®) respectively dedicated software (EuroProxima)



Premi®Test

Microbial inhibition test for qualitative screening

- Detects a broad spectrum of antibiotics
- Easy to handle, no sophisticated equipment needed
- Fast (-er than plate tests)
- Sensitive (in conformity with EU-MRLs)
- Validated (AOAC-RI PTMSM and AFNOR NF VALIDATION)



Antibiotics

Product	Description	No. of tests/amount	Art. No.
Fenicol ELISA microtiter plates			
RIDASCREEN® Chloramphenicol	Enzyme immunoassay for quantitative analysis of chloramphenicol in milk (24 ng/L), milk powder (25 ng/kg), yoghurt/kefir/buttermilk/cream (12 ng/kg), curd/sour cream (15 ng/kg), butter (61 ng/kg), cheese (16 ng/kg), honey (25 ng/kg), royal jelly (23 ng/kg), meat (5 ng/kg), fish/shrimp (8 ng/kg), egg (15 ng/kg), urine (196 ng/L), plasma/serum (18 ng/L), feed (107 ng/kg)	96 determinations Incubation time: 45 min	R1511
RIDA® Chloramphenicol Spiking Solution	50 ng/ml	1 ml	R1599
EuroProxima Florfenicol-amine	Enzyme immunoassay for quantitative analysis of florfenicol-amine in tissue (5 µg/kg), fish (8 µg/kg), kidney (11 µg/kg), liver (7 µg/kg), milk (2 µg/L) and egg (5 µg/kg)	96 determinations Incubation time: 1 hr 30 min	5091FLOA
Tetracyclin ELISA microtiter plates			
RIDASCREEN® Tetracyclin	Enzyme immunoassay for quantitative analysis of tetracycline in milk (0.9 µg/L), milk powder (5 µg/kg), cheese (2.3 µg/kg), butter (2.6 µg/kg), dairy products (1 µg/kg), honey (3.7 µg/kg), meat (1.5 µg/kg), sausage (4.6 µg/kg), fish (1.5 µg/kg), shrimp (1.2 µg/kg), eggs (2.8 µg/kg)	96 determinations Incubation time: 1 hr 30 min	R3505
RIDA® Tetracyclin Spiking Solution	Lyophilisate, produces 10 ml of a 100 ng/ml stock solution	1 lyophilisate, 1 reconstitution buffer	R3599
EuroProxima Oxytetracycline	Enzyme immunoassay for quantitative analysis of Oxytetracycline in honey (5 µg/kg) and shrimp/fish (2 µg/kg)	96 determinations Incubation time: 1 hr 30 min	5091OTC
β-Lactame ELISA microtiter plates			
EuroProxima Penicillin	Enzyme immunoassay for quantitative analysis of penicillins in milk (0.08 µg/L), cheese/butter/yoghurt/curd/cream/kefir/whey (0.4 - 2.5 µg/L), infant formula (0.5 µg/L), chicken meat (5 µg/kg) and turkey meat (0.9 µg/kg)	96 determinations Incubation time: 1 hr 30 min	5091PEN
EuroProxima Cefalexin	Enzyme immunoassay for quantitative analysis of Cefalexin in milk (5 µg/kg), honey (7 µg/kg) and other matrices	96 determinations Incubation time: 1 hr 30 min	5091CEF
Nitrofurans ELISA microtiter plates			
RIDASCREEN® Nitrofurant (AOZ)	Enzyme immunoassay for quantitative analysis of AOZ in shrimp/fish/milk (50 ng/kg), meat/liver/whole egg/honey (100 ng/kg), *	96 determinations Incubation time: 1 hr 15 min	R3703
RIDA® Nitrofurant (AOZ) Spiking Solution	20 ng/ml	1 ml	R3798
RIDASCREEN® Nitrofurant (AMTZ)	Enzyme immunoassay for quantitative analysis of AMTZ in shrimp/meat/liver/fish/whole egg (50 ng/kg), *	96 determinations Incubation time: 45 min	R3722
RIDA® Nitrofurant (AMTZ) Spiking Solution	20 ng/ml	1 ml	R3799
RIDASCREEN® Nitrofurant (AHD)	Enzyme immunoassay for quantitative analysis of AHD in shrimp (200 ng/kg), fish (76 ng/kg), *	96 determinations Incubation time: 1 hr 15 min	R3713
RIDA® Nitrofurant (AHD) Spiking Solution	20 ng/ml	1 ml	R3796
RIDASCREEN® Nitrofurant (SEM)	Enzyme immunoassay for quantitative analysis of SEM in meat beef/pork/shrimp (300 ng/kg), poultry (400 ng/kg), fish 360 ng/kg), *	96 determinations Incubation time: 1 hr 15 min	R3715
RIDA® Nitrofurant (SEM) Spiking Solution	20 ng/ml	1 ml	R3797

* Further applications on request.








Antibiotics

Product	Description	No. of tests/amount	Art. No.
Aminoglycosides ELISA microtiter plates			
RIDASCREEN® Streptomycin	Enzyme immunoassay for quantitative analysis of streptomycin in milk (5 µg/L), honey (2 µg/kg), beef/pork (22 µg/kg), poultry (28 µg/kg), liver (23 µg/kg), kidney (18 µg/kg), shrimp (20 µg/kg), apple juice (4 µg/L)	96 determinations Incubation time: 45 min	R3104
RIDA® Streptomycin Spiking Solution	10 µg/mL	1 ml	R3199
EuroProxima Gentamicin	Enzyme immunoassay for quantitative analysis of Gentamicin in milk (2 µg/kg), tissue (10 µg/kg), honey (2.5 µg/kg) and other matrices	96 determinations Incubation time: 1 hr 30 min	5111GEN
EuroProxima Neomycin	Enzyme immunoassay for quantitative analysis of Neomycin in milk (6 µg/kg), tissue (31 µg/kg), urine (8 µg/kg) and other matrices	96 determinations Incubation time: 1 hr 30 min	5111NEO
Macrolides ELISA microtiter plates			
EuroProxima Erythromycin	Enzyme immunoassay for quantitative analysis of Erythromycin in milk (4 µg/kg), honey (10 µg/kg), egg (10 µg/kg), shrimp/fish (10 µg/kg), liver (10 µg/kg) and urine (4 µg/kg)	96 determinations Incubation time: 1 hr 30 min	5151ERY
EuroProxima Tylosin	Enzyme immunoassay for quantitative analysis of Tylosin in milk (2.5 µg/kg), honey (2.5 µg/kg), egg (2.5 µg/kg) and other matrices	96 determinations Incubation time: 1 hr 15 min	5151TYL
Lincomycine ELISA microtiter plates			
EuroProxima Lincomycin	Enzyme immunoassay for quantitative analysis of Lincomycin in milk (45 µg/kg), tissue (41 µg/kg), honey (7 µg/kg) and other matrices	96 determinations Incubation time: 1 hr 30 min	5151LIN
Virginiamycin ELISA microtiter plates			
EuroProxima Virginiamycin	Enzyme immunoassay for quantitative analysis of Virginiamycin in urine (40 µg/kg), feed (40 µg/kg) and milk (8 µg/kg)	96 determinations Incubation time: 1 hr 30 min	5151VIG
Sulfonamides ELISA microtiter plates			
RIDASCREEN® Sulfamethazin	Enzyme immunoassay for quantitative analysis of sulfamethazine in milk (4 µg/L), meat (5 µg/kg), liver (6 µg/kg), kidney (10 µg/kg), honey (10 µg/kg)	96 determinations Incubation time: 45 min	R3011
RIDA® Sulfamethazin Spiking Solution	10 µg/mL	1 ml	R3098
RIDASCREEN® Sulfonamide	Enzyme immunoassay for quantitative analysis of sulfonamides in poultry/egg (1.5 µg/kg), pork/fish/shrimp/honey (2 µg/kg), milk (3.5 µg/L)	96 determinations Incubation time: 1 hr 15 min	R3004
RIDA® Sulfonamide/Sulfamethoxypyridazin Spiking Solution	0.1 µg/mL	1 ml	R3099
EuroProxima Dapsone	Enzyme immunoassay for quantitative analysis of Dapsone in shrimp (0.05 µg/kg), egg (0.1 µg/kg) and milk (0.06 µg/kg)	96 determinations Incubation time: 2 hrs 30 min	5101DAP

* Further applications on request.



Antibiotics

Product	Description	No. of tests/amount	Art. No.
Quinolones/Fluoroquinolones ELISA microtiter plates 			
RIDASCREEN® Chinolone/Quinolones	Enzyme immunoassay for quantitative analysis of quinolones in shrimp (6 µg/kg), fish (8 µg/kg), egg (9 µg/kg), meat (10 µg/kg), *	96 determinations Incubation time: 1 hr 15 min	R3113
RIDA® Ciprofloxacin Spiking Solution	1 µg/mL	1 ml	R3198
EuroProxima Flumequine	Enzyme immunoassay for quantitative analysis of Flumequine in milk (13 µg/kg), egg (3 µg/kg), honey (10 µg/kg) and other matrices	96 determinations Incubation time: 1hr 30 min	5101FLUM
EuroProxima Fluoroquinolones I	Enzyme immunoassay for quantitative analysis of Fluoroquinolones in milk (3 µg/kg), egg (6 µg/kg), honey (2 µg/kg) and other matrices	96 determinations Incubation time: 1hr 30 min	5101FLUQG
EuroProxima Fluoroquinolones II	Enzyme immunoassay for quantitative analysis of Fluoroquinolones in shrimp (4 µg/kg), tissue (0.6 µg/kg), honey (0.1 µg/kg) and other matrices	96 determinations Incubation time: 45 min	5101FLUQII
Nitromidazoles ELISA microtiter plates 			
EuroProxima Dimetridazole	Enzyme immunoassay for quantitative analysis of Dimetridazole in shrimps (0.8 µg/kg), tissue (0.3 µg/kg), milk (0.3 µg/kg) and other matrices	96 determinations Incubation time: 1 hr 30 min	5091DIME
Polypeptides ELISA microtiter plates 			
RIDASCREEN® Bacitracin	Enzyme immunoassay for quantitative analysis of bacitracin in milk (11 µg/L), meat (9 µg/kg), eggs (11 µg/kg), feed (82 µg/kg), urine (23 µg/L)	96 determinations Incubation time: 1 hr 30 min	R2901
Others ELISA microtiter plates 			
EuroProxima Colistin	Enzyme immunoassay for quantitative analysis of Colistin in milk (4 µg/kg), egg (22 µg/kg) and other matrices	96 determinations Incubation time: 1 hr	5151COL
Premi®Test Test ampoules 			
Premi®Test	Microbial inhibition test for the screening of antibiotic residues in food of animal origin such as meat (beef, pork, poultry), liver, kidney, fish, shrimp, eggs, bovine/porcine urine and pork/poultry feed Detectable antibiotic groups: β-lactams, cephalosporins, macrolides, tetracyclins, sulphonamides, aminoglycosides, quinolones, polypeptides, fenicol, others	4 x 25 ampoules 25 ampoules Incubation time: 3 hrs	R3900 R3925



Antibiotics

	Matrix													
Test	Milk	Milk powder	Dairy products*	Meat	Liver	Kidney	Fish	Shrimp	Honey	Egg	Urine	Serum/plasma	Feed	Additional matrices
RIDASCREEN® Bacitracin	•			•							•			
EuroProxima Cefalexin	•			•					•		•			
RIDASCREEN® Chinolone	•			•			•	•	•					
RIDASCREEN® Chloramphenicol	•	•	•	•			•	•	•	•	•	•	•	
EuroProxima Colistin	•			•	•					•			•	
EuroProxima Dapsone	•							•		•				
EuroProxima Dimetridazole	•			•				•		•		•		
EuroProxima Erythromycin	•			•	•			•	•	•	•			
EuroProxima Florfenicol-amine	•				•	•	•			•				
EuroProxima Flumequine	•			•				•	•	•	•	•	•	
EuroProxima Fluorquinolones I	•			•					•	•	•	•	•	
EuroProxima Fluorquinolones II				•				•	•		•	•	•	
EuroProxima Gentamicin				•					•	•	•	•	•	
EuroProxima Lincomycin	•			•	•				•	•				
EuroProxima Neomycin	•			•					•		•	•		
RIDASCREEN® Nitrofurantoin AHD							•	•						
RIDASCREEN® Nitrofurantoin AMOZ	•			•	•		•	•		•				
RIDASCREEN® Nitrofurantoin AOZ	•			•	•		•	•	•	•				
RIDASCREEN® Nitrofurantoin SEM				•			•	•						
EuroProxima Oxytetracycline	•							•	•					
EuroProxima Penicillin	•	•	•	•										baby food
Premi®Test				•	•	•	•	•						
RIDASCREEN® Sulfamethazin	•			•	•	•	•	•	•	•				
RIDASCREEN® Sulfonamide	•			•										
RIDASCREEN® Streptomycin	•		•	•	•	•			•	•				Apple juice
RIDASCREEN® Tetracyclin	•	•	•	•			•	•	•	•				Sausage
EuroProxima Tylosin	•			•					•	•	•	•	•	
EuroProxima Virginiamycin	•										•	•		

* Dairy products: butter, cheese, curd, yoghurt, cream, kefir (depending on test).