

Procedura: **ANTIBIOTICI NEL MUSCOLO E NEL LATTE BOVINO MEDIANTE LC-Q-HRMS**Codice Procedura: **PRT.CSVM3.002 (REV.006)**

Matrice: muscolo (tutte le specie)

Data Dossier: 11/10/2023

Analita	Classe	I Livello	II Livello	III Livello	IV Livello	V Livello	VI Livello	VII Livello
		10 µg/kg	33 µg/kg	100 µg/kg	150 µg/kg	333 µg/kg	1000 µg/kg	1500 µg/kg
Recupero ± Scarto Tipo (%)								
Florfenicolo ammina	Amfenicoli	99 ± 5.9	89 ± 4.4	92 ± 4.8	84 ± 2.4	87 ± 4.0	83 ± 2.9	84 ± 5.8
Florfenicolo		94 ± 19	93 ± 2.8	91 ± 5.2	96 ± 4.2	104 ± 2.0	94 ± 1.9	95 ± 3.1
Tiamfenicolo		95 ± 6.3	91 ± 2.4	89 ± 5.3	93 ± 2.7			
Amoxicillina		61 ± 4.9	64 ± 4.9	64 ± 4.8	64 ± 3.4			
Ampicillina	Beta lattamici	69 ± 4.3	71 ± 2.7	70 ± 5.4	66 ± 3.7			
Cefacetrile		-	78 ± 3.2	78 ± 9.2	79 ± 5.4			
Cefalexina		59 ± 4.5	60 ± 3.4	62 ± 3.2	59 ± 4.2	58 ± 4.1	60 ± 15	60 ± 6.4
Cefalonium		85 ± 4.8	80 ± 2.8	80 ± 3.5	77 ± 2.6			
Cefapirina		72 ± 6.2	79 ± 3.1	76 ± 4.6	79 ± 3.3			
Cefazolina		85 ± 6.0	85 ± 2.6	86 ± 3.8	83 ± 2.5			
Cefoperazone		77 ± 14	88 ± 3.4	91 ± 5.4	91 ± 2.8			
Cefquinome		78 ± 5.4	70 ± 2.3	66 ± 3.7	64 ± 5.5			
Ceftiofur		79 ± 5.9	82 ± 3.6	76 ± 5.5	78 ± 4.1	77 ± 3.2	81 ± 3.1	78 ± 5.5
Cloxacillina		88 ± 6.2	85 ± 2.2	86 ± 6.4	82 ± 5.8	85 ± 2.5	85 ± 2.1	84 ± 5.6
Desacetilcefapirina		81 ± 3.7	79 ± 4.9	80 ± 3.8	77 ± 2.4			
Dicloxacillina		85 ± 6.1	84 ± 3.7	81 ± 7.3	80 ± 6.3	98 ± 2.9	82 ± 2.4	80 ± 5.8
Nafcillina		88 ± 6.2	85 ± 2.8	85 ± 6.3	83 ± 5.3	85 ± 2.8	85 ± 2.0	83 ± 5.8
Oxacillina		92 ± 7.2	88 ± 1.9	87 ± 8.2	84 ± 6.8	84 ± 2.4	86 ± 1.9	84 ± 5.8
Penicillina G		88 ± 6.0	85 ± 2.5	86 ± 6.7	83 ± 5.1			
Penicillina V		90 ± 7.5	86 ± 2.4	85 ± 8.2	83 ± 6.1			
Acido ossolinico		Chinolonici	95 ± 6.6	97 ± 3.1	93 ± 6.2	95 ± 2.6		
Ciprofloxacina	81 ± 4.7		72 ± 2.5	78 ± 4.6	70 ± 4.3			
Danofloxacina	87 ± 4.9		87 ± 2.9	88 ± 2.9	89 ± 2.1	86 ± 3.1	84 ± 2.3	83 ± 5.1
Difloxacina	94 ± 4.1		96 ± 2.5	93 ± 3.0	96 ± 2.2	94 ± 2.9	92 ± 1.8	89 ± 4.8
Enrofloxacina	90 ± 3.9		89 ± 2.9	90 ± 3.9	92 ± 3.3			
Flumechina	92 ± 4.7		93 ± 3.0	90 ± 4.6	94 ± 3.5	94 ± 2.8	91 ± 3.0	91 ± 4.2
Marbofloxacina	87 ± 5.4		86 ± 3.2	85 ± 4.8	89v2.7	89 ± 3.6	87 ± 2.1	85 ± 5.3
Sarafloxacina	87 ± 4.3		76v2.4	80 ± 4.1	72 ± 3.4			
Acido nalidixico	89 ± 8							
Norfloxacina	75 ± 9							
3-O-Acetiltilosina	Macrolidi	87 ± 7.5	88 ± 6.5	64 ± 14	63 ± 5.9			
Eritromicina		84 ± 5.0	81 ± 4.4	80 ± 5.2	84 ± 3.5	90 ± 2.3	86 ± 2.3	84 ± 5.0
Gamitromicina		89 ± 4.1	92 ± 5.4	87 ± 6.8	86 ± 4.1			
Neospiramicina		78 ± 6.7	73 ± 7.3	61 ± 15	57 ± 7.6	79 ± 3.2	75 ± 1.9	71 ± 7.0
Spiramicina		83 ± 6.0	79 ± 7.4	67 ± 12	61 ± 6.9	80 ± 3.2	80 ± 2.7	74 ± 7.0
Tildipirosina		73 ± 5.4	77 ± 5.7	75 ± 6.0	76 ± 3.3	77 ± 6.0	67 ± 3.8	73 ± 6.6
Tilmicosina		90 ± 5.0	96 ± 6.6	87 ± 7.5	88 ± 5.0			
Tilosina		87 ± 5.8	86 ± 6.7	70 ± 9.6	67 ± 4.1			
Tilvalosina		96 ± 4.7	61 ± 15	64 ± 16	85 ± 5.8			
Tulatromicina		76 ± 8.9	57 ± 93.0	66 ± 45.1	71 ± 2.8	53 ± 7.4	73 ± 8.0	68 ± 4.0
Tulatromicina marker		788.4	86 ± 3.2	76 ± 5.7	82 ± 2.2	71 ± 4.0	82 ± 5.8	75 ± 3.3
Sulfachinossalina	Sulfamidici	81 ± 6.5	74 ± 3.9	74 ± 7.2	74 ± 3.8			
Sulfadiazina		84 ± 5.2	77 ± 5.3	83 ± 6.0	80 ± 2.1			
Sulfadimetossina		84 ± 4.4	82 ± 3.9	84 ± 5.7	84 ± 2.8			
Sulfamerazina		82 ± 5.2	81 ± 6.3	83 ± 4.5	70 ± 3.7			
Sulfametazina		82 ± 4.0	81 ± 5.0	83 ± 5.1	81 ± 2.3			

Analita	Classe	I Livello	II Livello	III Livello	IV Livello	V Livello	VI Livello	VII Livello
		10 µg/kg	33 µg/kg	100 µg/kg	150 µg/kg	333 µg/kg	1000 µg/kg	1500 µg/kg
Recupero ± Scarto Tipo (%)								
Sulfametossazolo	Sulfamidici	86 ± 5.2	83 ± 4.4	83 ± 5.8	84 ± 2.4			
Sulfamonometossina		83 ± 5.5	82 ± 4.4	85 ± 5.2	85 ± 2.5			
Sulfapiridina		80 ± 5.1	77 ± 5.5	84 ± 5.4	80 ± 2.9			
Sulfatiazolo		80 ± 5.3	76 ± 5.9	79 ± 6.1	78 ± 2.9			
Sulfaclopirazina (Sulfaclozina)		81 ± 6.1	85 ± 9.6	75 ± 5.4	70 ± 2.8			
Sulfadossina		86 ± 6.6	82 ± 6.4	79 ± 4.3	73 ± 3.2			
Sulfisoxazolo		83 ± 11.9	84 ± 3.6	75 ± 7.7	69 ± 3.3			
Sulfametizolo		84 ± 5.4	84 ± 8.9	73 ± 4.7	6.9 ± 3.4			
Sulfametossipiridazina		83 ± 6.7	88 ± 7.6	79 ± 4.9	73 ± 3.3			
Sulfameter		83 ± 5.1	91 ± 5.3	79 ± 5.1	74 ± 3.4			
Sulfamoxolo		78 ± 3.5	80 ± 7.2	73 ± 6.2	69 ± 3.4			
Sulfaclopiridazina		80 ± 4.1	87 ± 7.5	76 ± 5.1	71 ± 3.6			
Clortetraciclina	Tetraciclini	74 ± 8.1	76 ± 4.2	71 ± 7.1	79 ± 3.7			
Dossiciclina		73 ± 8.1	74 ± 5.1	71 ± 8.7	73 ± 4.0			
4-Epiclortetraciclina		70 ± 11	72 ± 5.1	69 ± 7.36	81 ± 7.3			
4-Epiossitetraciclina		67 ± 7.6	68 ± 3.4	69 ± 6.8	73 ± 3.8			
4-Epitetraciclina		67 ± 7.7	67 ± 3.5	70 ± 5.6	71 ± 3.6			
Ossitetraciclina		68 ± 7.5	68 ± 3.4	67 ± 7.0	73 ± 3.8			
Tetraciclina		75 ± 5.7	79 ± 3.3	75 ± 5.7	81 ± 2.4			
Lincomicina	Altri	83 ± 4.4	85 ± 3.4	85 ± 3.7	84 ± 8.5			
Trimetoprim		89 ± 4.4	90 ± 3.4	87 ± 4.2	89 ± 2.7			
Rifaximina		88 ± 5.9	87 ± 7.0	80 ± 7.7	86 ± 6.0			
Tiamulina		86 ± 5.1	86 ± 10	81 ± 11	83 ± 7.4			
Valnemulina		69 ± 13.6	66 ± 6.8	58 ± 16.7	59 ± 17.9			

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Codice Procedura: PRT.CSVM3.002 (REV.006)

Matrice: latte bovino

Data Dossier: 11/10/2023

Analita	Classe	I Livello	II Livello	III Livello	IV Livello	V Livello	VI Livello
		2 µg/kg	10 µg/kg	33 µg/kg	100 µg/kg	150µg/kg	333µg/kg
Recupero ± Scarto Tipo (%)							
Florfenicolo ammina	Amfenicoli	116 ± 4.1	125 ± 17	99 ± 11	101 ± 4.1	99 ± 6.6	
Florfenicolo		-	-	100 ± 5.3	99 ± 3.4	93 ± 4.1	
Tiamfenicolo		94 ± 9.4	100 ± 8.6	100 ± 3.9	101 ± 3.2	100 ± 3.9	
Amoxicillina	Beta lattamici	84 ± 7.0	87 ± 6.6	87 ± 2.5	88 ± 2.1	86 ± 2.1	
Ampicillina		87 ± 3.3	89 ± 3.4	89 ± 2.5	88 ± 1.8	86 ± 1.8	
Cefacettrile		-	88 ± 11	97 ± 2.3	95 ± 2.2	90 ± 2.5	
Cefalexina		86 ± 2.0	89 ± 4.3	88 ± 1.9	84 ± 16	87 ± 2.0	
Cefalonium		90 ± 4.6	94 ± 3.8	92 ± 2.4	92 ± 2.4	93 ± 1.9	
Cefapirina		91 ± 3.5	93 ± 4.0	95 ± 3.0	95 ± 1.9	94 ± 2.0	
Cefazolina		93 ± 7.4	96 ± 4.4	93 ± 2.5	96 ± 2.9	94 ± 2.3	
Cefoperazone		85 ± 22	94 ± 6.2	94 ± 2.1	94 ± 3.8	90 ± 2.0	
Cefquinome		92 ± 4.9	94 ± 4.9	93 ± 2.4	92 ± 2.3	93 ± 2.2	
Ceftiofur		84 ± 8.3	89 ± 5.1	89 ± 3.8	89 ± 5.8	83 ± 2.6	
Cloxacillina		88 ± 16	95 ± 16	85 ± 24	102 ± 4.8	92 ± 10	
Desacetilcefapirina		89 ± 2.9	94 ± 2.6	96 ± 3.0	96 ± 2.6	94 ± 1.8	

Analita	Classe	I Livello	II Livello	III Livello	IV Livello	V Livello	VI Livello
		2 µg/kg	10 µg/kg	33 µg/kg	100 µg/kg	150µg/kg	333µg/kg
Recupero ± Scarto Tipo (%)							
Dicloxacillina		86 ± 6.7	92 ± 8.1	90 ± 4.1	91 ± 6.1	80 ± 4.9	
Nafcillina		90 ± 3.7	92 ± 5.4	90 ± 3.2	92 ± 4.3	87 ± 3.3	
Oxacillina		89v13	94 ± 10	91 ± 7.0	91 ± 2.8	91 ± 6.0	
Penicillina G		86 ± 6.5	87 ± 8.4	96 ± 8.8	88 ± 7.1	82 ± 3.2	
Penicillina V		90 ± 14	95 ± 8.5	90 ± 7.2	96 ± 9.1	87 ± 5.5	
Acido ossolinico	Chinolonici	96 ± 6.1	104 ± 7.4	102 ± 5.5	103 ± 4.7	101 ± 3.2	
Ciprofloxacina		96 ± 8.2	104 ± 7.1	99 ± 5.3	100 ± 4.9	96 ± 2.6	
Danofloxacina		99 ± 7.5	109 ± 5.9	99 ± 4.5	105 ± 4.8	105v2.7	
Difloxacina		98 ± 5.1	106 ± 5.7	102 ± 5.5	103 ± 5.4	102 ± 3.6	
Enrofloxacina		96 ± 6.6	104 ± 6.4	101 ± 5.4	103 ± 5.4	102 ± 3.6	
Flumechina		95 ± 9.1	98 ± 9.8	102 ± 5.7	104 ± 6.2	96 ± 1.9	
Marbofloxacina		99 ± 5.7	106 ± 6.3	108 ± 4.8	103 ± 4.1	102 ± 3.6	
Sarafloxacina		93 ± 6.4	107 ± 6.0	100 ± 5.5	102 ± 4.6	100 ± 3.1	
Acido nalidixico		91 ± 11					
Norfloxacina	87 ± 13						
3-O-Acetiltilosina	Macrolidi	-	108 ± 12	95 ± 6.7	95 ± 4.2	94 ± 6.1	
Eritromicina		60 ± 14	63 ± 12	63 ± 3.6	62 ± 12	60 ± 6.5	
Gamitromicina		93 ± 6.9	102 ± 6.1	95 ± 5.6	100 ± 4.9	99 ± 3.3	
Neospiramicina		89 ± 10	102 ± 6.2	95 ± 6.2	97 ± 3.5	98 ± 3.1	90 ± 8.8
Spiramicina		92 ± 14	101 ± 5.3	94 ± 4.8	97 ± 3.8	96 ± 3.7	92 ± 8.1
Tildipirosina		90 ± 8.5	101 ± 5.6	95 ± 5.7	97 ± 4.2	94 ± 3.3	
Tilmicosina		96 ± 8.2	104 ± 5.1	100 ± 5.2	102 ± 4.6	98 ± 4.4	
Tilosina		-	90 ± 22	97 ± 6.2	92 ± 4.3	89 ± 4.0	
Tilvalosina		-	97 ± 2.4	99 ± 4.4	103 ± 7.2	90 ± 7.7	
Tulatromicina		95 ± 10	104 ± 7.6	97 ± 5.2	96 ± 3.7	94 ± 2.8	
Tulatromicina marker		95 ± 5.8	102 ± 5.0	99 ± 5.1	100 ± 4.4	99 ± 3.1	
Sulfachinossalina	Sulfamidici	75 ± 14	89 ± 9.4	82 ± 3.4	85 ± 8.0	78 ± 5.4	
Sulfadiazina		74 ± 10	77 ± 5.3	72 ± 6.2	79 ± 12	78 ± 6.4	
Sulfadimetossina		82 ± 7.8	90 ± 7.3	86 ± 4.6	87 ± 7.4	83 ± 4.6	
Sulfamerazina		67 ± 12	76 ± 10	66 ± 6.5	75 ± 14	75 ± 7.0	
Sulfametazina		63 ± 11	72 ± 8.8	64 ± 6.3	72 ± 13	72 ± 6.3	
Sulfametossazolo		81 ± 11	89 ± 7.0	85 ± 3.7	88 ± 6.6	85 ± 6.0	
Sulfamonometossina		76 ± 8.7	83 ± 7.9	77 ± 4.2	82 ± 9.4	77 ± 6.1	
Sulfapiridina		64 ± 9.4	72 ± 9.3	65 ± 7.1	72 ± 14	73 ± 7.4	
Sulfatiazolo		68 ± 10	75 ± 8.1	69 ± 5.5	75 ± 11	72 ± 8.0	
Sulfacloropirazina (Sulfaclozina)		82 ± 5.4	86 ± 6.4	69 ± 6.9	78 ± 10.2		
Sulfadossina		79 ± 4.9	82 ± 3.1	63 ± 3.7	73 ± 6.9		
Sulfisoxazolo		68 ± 6.5	74 ± 8.2	55 ± 5.2	68 ± 7.8		
Sulfametizolo		68 ± 4.8	72 ± 7.7	54 ± 2.2	63 ± 7.6		
Sulfametossipiridazina		68 ± 5.0	71 ± 6.0	57 ± 72.5	64 ± 7.4		
Sulfameter		77 ± 4.6	80 ± 6.4	68 ± 2.8	71 ± 7.1		
Sulfamoxolo		64 ± 4.7	68 ± 4.4	55 ± 3.0	56 ± 5.2		
Sulfacloropiridazina		76 ± 4.8	80 ± 7.0	64 ± 4.0	72 ± 8.3		
Clortetraciclina	Tetraciclina	88 ± 14	96 ± 6.1	96 ± 4.7	96 ± 4.7	85 ± 3.9	
Dossiciclina		93 ± 5.9	99 ± 5.2	95 ± 4.7	96 ± 4.7	88 ± 3.9	
4-Epiclortetraciclina		96 ± 20	105 ± 9.8	105 ± 6.4	103 ± 5.4	95 ± 5.5	
4-Epiossitetraciclina		97 ± 17	102 ± 4.5	97 ± 6.3	99 ± 8.2	99 ± 4.4	
4-Epitetraciclina		107 ± 9.4	106 ± 7.3	99 ± 4.5	99 ± 5.1	99 ± 4.4	
Ossitetraciclina		92 ± 8.7	96 ± 5.9	93 ± 5.8	95 ± 5.5	91 ± 3.7	
Tetraciclina		86 ± 5.0	97 ± 6.1	95 ± 5.0	97 ± 4.6	93 ± 4.2	
Lincomicina	Altri	92 ± 6.3	100 ± 5.5	95 ± 5.4	100 ± 4.6	98 ± 3.4	93 ± 7.0
Trimetoprim		93 ± 7.2	101 ± 5.6	99 ± 3.5	101 ± 3.3	98 ± 2.6	
Rifaximina		77 ± 12	88 ± 13	86 ± 4.8	83 ± 8.5	74 ± 4.6	
Tiamulina		91 ± 8.5	103 ± 7.2	91 ± 4.5	96 ± 4.0	94 ± 4.6	

Valnemulina		87 ± 8.7	96 ± 9.1	93 ± 4.1	90 ± 6.3	79 ± 5.2	
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