

Test material F1136, swine feed, confirmatory

Table 38: results of confirmatory analyses performed on test material F1136-2 (medicated sample): tylosin detection.

F1136-2 tylosin, assigned value: 23.24 mg/kg satisfactory range: 18.60 – 27.88 mg/kg						
Lab. code	Result (mg/kg)	Recovery %	z-score	Decision limit CC α or cut-off (mg/kg)	Detection capability CC β (mg/kg)	ISO 17025
07	NS					
14	20.0	100	-1.40	1	1.5	y
21	NS					
22	26.900	-	1.58	0.200	0.20	y
25	NS					
31	8.27	-	-6.45	0.1	0.2	y
36	25	-	0.76	1	-	y
41	23	92	-0.10	-	-	n
58	36	-	5.50	-	0.2 (LOQ)	y
58a*	30	-	2.91	-	0.2 (LOQ)	y
69	23.5	92.0	0.11	1.0	-	n

* = data from screening (not used for the statistic elaboration)

Concentration mean ($n = 7$)	23.24 mg/kg
Standard deviation ($n = 7$)	8.31 mg/kg
Coefficient of variation ($n = 7$)	35.75%

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Table 39: assigned value and target standard deviations.

Analyte	Assigned value (mg/kg)				Target standard deviation		
	Data points, <i>n</i>	Robust mean	SD	CV	Analytical uncertainty <i>u</i>	<i>b</i>	$\sigma = bX$
tylosin	7	23.24	8.31	35.75	3.14	0.10	2.32

Horrat value
 CV (RDS), *n*=7: 35.75%
 Horwitz expected CV: 9.97%
 Horrat (= CV / Horwitz CV): 3.59

u / σ = 135.57%

