

Table 1: Results and z-Scores for Porcine Kidney Test Material

laboratory number	analyte			
	sulfadimidine			
	assigned value 73.1 µg/kg			
	result µg/kg	Int. Std used? or % recovery	LoQ µg/kg	z-score
001	62	80 M	5	-0.7
002	0	N 83	30	-4.5
003	47.90	101	25	-1.6
004	90	Y	5	1.0
005	89	Y	25	1.0
006	#			
007	65.90	N or 110.00 %		-0.4
008	71.60	49	11	-0.1
009	39	67.2	2	-2.1
010	61.7			-0.7
011	100			1.7
012	91	Y	<10	1.1
013	96.8	y	10	1.5
014	63	52.9	10	-0.6
015	90.8	54.9	50	1.1
016	128.3	Y M	50	3.4
017	42.3	Y	10	-1.9
018	19.8	75%	1	-3.3
019	85	Y		0.7
020	71	y		-0.1
021	104.69	101.96	10.0	2.0
022	† 0			-4.5
023	82	87 %	25	0.6
024	75	81	5	0.1
025	84	80	25	0.7
026	55.7	y	<50	-1.1
027	135.2	Y M	10	3.9

z-scores outside the satisfactory range, i.e. $|z| > 2$, are shown in **bold**

M = matrix-based calibration curve used

† = additional residues reported > 25 µg/kg see -Table 2

= not analysed

Table 1 (continued): Results and z-Scores for Porcine Kidney Test Material

laboratory number	analyte			
	sulfadimidine			
	assigned value 73.1 µg/kg			
	result µg/kg	Int. Std used? or % recovery	LoQ µg/kg	z-score
028	44.7	Y 96%	5.7	-1.8
029	40	113%	10	-2.1
030	#			
031	< 25	N 71%		
032	43.95	N	10	-1.8
033	† 213	105.7	20	8.7
034	27	80.8	10	-2.9
035	92.98	94.92	20	1.2
036	102	Y		1.8
037	101.6		119 ●	1.8
038	21	Y, 75%	1	-3.2
039	78.3	84.5	10	0.3
040	74.6	51	20	0.1
041	91.3	63.8	50	1.1
042	0	N	22.3 ●	-4.5
043	† 0			-4.5
044	40	Y M	10	-2.1
045	48.2	96.0	9.5	-1.5
046	100.5	Y	10	1.7
047	59	Y	50	-0.9
048	† 104.6	66	10	2.0
049	61	Y M	10	-0.8
050	79.5	y	30	0.4
051	86	70	5	0.8
052	94	y		1.3
053	60	y	10	-0.8
054	42.3	44%	10	-1.9

z-scores outside the satisfactory range, i.e. $|z| > 2$, are shown in **bold**

† = additional residues reported > 25 µg/kg see -Table 2

● = CCβ

M = matrix-based calibration curve used

= not analysed

Table 2: Additional Sulfonamides Reported

laboratory number	analyte reported >25 µg/kg	result µg/kg	int. std. added or % recovery	LoQ µg/kg
022	sulfachloropyridazine	216.8		
022	sulfadimethoxine	434.7		
022	sulfamethoxazole	153.7		
033	sulfaquinoxaline	198	78.2	20
043	sulfadiazine	112	N	50
048	sulfamethoxazole	209.3	60	15

results are shown as submitted by participants

Table 3: Assigned Values and Target Standard Deviations

analyte	assigned value				target standard deviation	
	data points <i>n</i>	robust mean \hat{X} , µg/kg	robust sd $\hat{\sigma}$	uncertainty <i>u</i>	derived from	σ_p , µg/kg
sulfadimidine	43	73.1	28.4	4.33	Horwitz*	16.09

* = see page 7 & 8 for appropriate form of the Horwitz equation

Table 4: Number and Percentage of Satisfactory z-Scores

analyte	number of satisfactory scores $ z \leq 2$	total number of scores	satisfactory %
sulfadimidine	38	51	75

APPENDIX I: Homogeneity Data for Porcine Kidney Test Material

sample identity	analyte	
	sulfadimidine	
	µg/kg	
	replicate 1	replicate 2
1	84.0	83.4
2	85.2	88.4
3	82.7	92.0
4	87.3	82.3
5	91.4	82.2
6	82.6	90.9
7	85.2	92.4
8	92.4	87.2
9	82.9	89.6
10	84.1	87.9
mean	86.7	
<i>n</i>	20	
origin of target sd (σ_p)	Horwitz*	
σ_p as RSD%	22.00	
abs. target sd (σ_p)	19.08	
S_{an}	4.55	
S_{am}^2	0	
σ_{all}^2	32.75	
<i>critical</i>	82.46	
$S_{am}^2 < \text{critical?}$	ACCEPT	