

Table 1: Results and z-Scores for Honey Test Material

laboratory number	analyte			
	chloramphenicol assigned value 0.56 µg/kg			
	result µg/kg	Int. Std used? or % recovery	LoQ µg/kg	z-score
001	0.567	Y	0.11	0.1
002	0.45	Y	0.1	-0.9
003	0.65	100	0.3	0.8
004	0.46	Y	0.3	-0.8
005	0.38	Y	0.2	-1.4
006	0.4	Y	0.3	-1.3
007	>0.2	N	0.2	
008	0.56	Y	0.10	0.0
009	0.648	Y	75 ppt	0.7
010	>0.3	N	0.3	
011	0.48	y	0.2	-0.6
012	0.60	Y		0.4
013	0.47	100	0.3	-0.7
014	0.5	uncorr	0.3	-0.5
015	0.53	Y	0.1	-0.2
016	0.55	Y	0.15	-0.1
017	0.501	100	0.025	-0.5
018	0.73	Y	0.15	1.4
019	0.53	Y	0.3	-0.2
020	0.29	y	0.15	-2.2
021	0.48	97	0.05	-0.6
022	0.5	Y	0.11	-0.5
023	0.5	>80	0.075	-0.5
024	0.48	yes		-0.6
025	0.6	YES	0.2	0.4

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

Int. Std. = internal standard

M = matrix-based calibration used

LoQ = limit of quantification

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

laboratory number	analyte			
	chloramphenicol assigned value 0.56 µg/kg			
	result µg/kg	Int. Std used? or % recovery	LoQ µg/kg	z-score
026	0.42	Y M	0.2	-1.1
027	0.62	M	0.3	0.5
028	0.53	Y M	0.1	-0.2
029	0.636	N	0.1	0.7
030	1.23	96	0,07	5.5
031	0.56	Y M	0.10	0.0
032	0.61	Y	0.12	0.4
033	0.47	N	0.06	-0.7
034	0.12	90	0.10	-3.6
035	0.51	y	0.1	-0.4
036	0.46	Y M	0.25	-0.8
037	0.6	Y M	0.3	0.4
038	0.78	Y	0.3	1.8
039	0.72	90	0.3	1.3
040	0.50	Y	0.30	-0.5
041	0.75	YES	0.13	1.6
042	0.60	107	0.5	0.4
043	0.47	Y	0.2	-0.7
044	0.623	98.1		0.5
045	0.53	Y	0.1	-0.2
046	0.55	Y	0.25	-0.1
047	♦ 0.58	Y M	0.1	0.2
048	0.52	Y	0.1	-0.3
049	0.52	107	0.3	-0.3
050	0.53	N, 90	0.1	-0.2

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

Int. Std. = internal standard

M = matrix-based calibration used

LoQ = limit of quantification

♦ = CCb given instead of LoQ, matrix-matched calibration curve was used

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

laboratory number	analyte			
	chloramphenicol assigned value 0.56 µg/kg			
	result µg/kg	Int. Std used? or % recovery	LoQ µg/kg	z-score
051	0.62	90	0.2	0.5
052	0.59	N	0.1	0.3
053	0.7	99.5	0.5	1.2
054	1.73	N	2	9.6
055	0.52	Y	0.3	-0.3
056	1.2	102	0.5	5.3
057	0.83	108	0.3	2.2
058	0.765	73.6	0.050	1.7
059	0.49	79.5	0.3	-0.5
060	0.64	N	0.08	0.7
061	0.46	Y	0.22	-0.8
062	0.56	Y	0.1	0.0
063	• 0.28	n 100%	0.3	-2.3
064	0.7974	Y	0.13	2.0

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

Int. Std. = internal standard

M = matrix-based calibration used

LoQ = limit of quantification

• = Result falls below routine reporting limit

Table 2: Assigned Value and Target Standard Deviation

analyte	assigned value, µg/kg				target standard deviation, µg/kg	
	data points, <i>n</i>	robust mean, \hat{X}	robust sd, $\hat{\sigma}$	uncertainty, <i>u</i>	derived from	σ_p
chloramphenicol	56	0.56	0.12	0.016	Horwitz *	0.122

* see page 7 for appropriate form of the Horwitz equation

Table 3: Number and Percentage of Satisfactory z-Scores

analyte	number of satisfactory scores $ z \leq 2$	total number of scores	satisfactory %
chloramphenicol	55	62	89

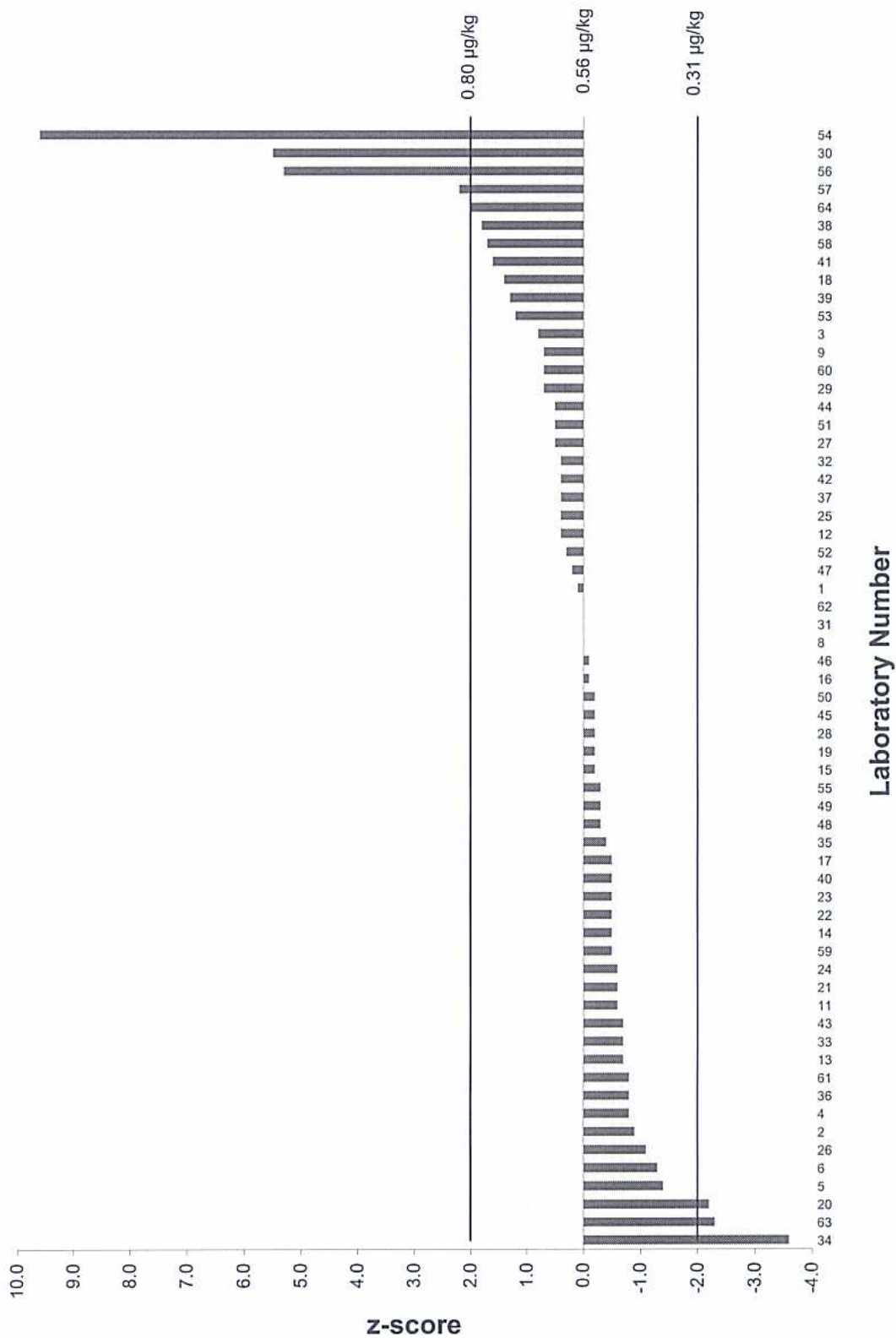


Figure 1: z-Scores for Chloramphenicol (0.56 µg/kg) in Honey Test Material

APPENDIX I: Homogeneity Data for Honey Test Material

sample identity	analyte	
	chloramphenicol µg/kg	
	replicate 1	replicate 2
1	0.38	0.39
2	0.43	0.44
3	0.39	0.47
4	0.43	0.48
5	0.49	0.47
6	0.38	0.38
7	0.43	0.48
8	0.39	0.43
9	0.53	0.48
10	0.43	0.49
mean	0.44	
<i>n</i>	20	
origin of target sd (σ_p)	Horwitz*	
σ_p as RSD%	22	
abs. target sd (σ_p)	0.0967	
s_{an}	0.0314	
s_{sam}^2	0.0011	
σ_{all}^2	0.0008	
<i>critical</i>	0.0026	
$s_{sam}^2 < \text{critical?}$	ACCEPT	

* see page 7 for appropriate form of the Horwitz equation