

Table 1: Results and z-Scores, Cereal (Wheat) Test Material

laboratory number	analyte			laboratory number	analyte		
	assigned value	OTA			assigned value	OTA	
		2.99	µg/kg			2.99	µg/kg
result µg/kg	recovery %	z-score	result µg/kg	recovery %	z-score		
001	2.910	uncorr	-0.1	027	2.95	95.3	-0.1
002	2.82	uncorr	-0.3	028	3.25	77.9	0.4
003	2.688	62.0	-0.5	029	2.80	80	-0.3
004	2.998	80.3	0.0	030	2.9	94	-0.1
005	4.4	85.0	2.2	031	1.675	82.14	-2.0
006	2.44	87.8	-0.8	032	2.8	uncorr	-0.3
007	3.62	80	1.0	033	2.1	85	-1.3
008	3.7	97	1.1	034	3.05	94	0.1
009	3.5	>65	0.8	035	2.71	93	-0.4
010	2.6	uncorr	-0.6	036	3.02	78	0.1
011	1.97	110	-1.5	037	2.79	90	-0.3
012	3.0	89.9	0.0	038	1.1	97	-2.9
013	2.9	104	-0.1	039	1.25	uncorr	-2.6
014	3.6	93	0.9	040	3.0	uncorr	0.0
015	0.47	85	-3.8	041	1.62	100	-2.1
016	3.10	88	0.2	042	2.6	98.4	-0.6
017	3.01	100	0.0	043	2.40	75	-0.9
018	3.53	90	0.8	044	4.17	72	1.8
019	3.09	97.8	0.2	045	4.56	89	2.4
020	2.92	98	-0.1	046	7.57	67.9	7.0
021	2.77	94	-0.3	047	3.21	uncorr	0.3
022	3.08	73.6	0.1	048	3.97	91	1.5
023	1.75	uncorr	-1.9	049	3.31	100	0.5
024	2.6	78	-0.6	050	5.67	89.3	4.1
025	1.9	93	-1.7	051	1.279	95	-2.6
026	2.3	90	-1.0	052	2.6	100	-0.6

uncorr = participant did not state recovery or stated not corrected for recovery
z-scores outside the satisfactory range, i.e. $|z| > 2$, are shown in **bold**

Table 1 continued : Results and z-Scores, Cereal (Wheat) Test Material.

laboratory number	analyte			laboratory number	analyte		
	assigned value	OTA			assigned value	OTA	
		2.99	µg/kg			2.99	µg/kg
result µg/kg	recovery %	z-score	result µg/kg	recovery %	z-score		
053	6.59	46	5.5	068	1.85	100	-1.7
054	3.723	85.5	1.1	069	3.80	88	1.2
055	2.61	77	-0.6	070	5	81	3.1
056	2.9	88	-0.1	071	2.70	uncorr	-0.4
057	0.95	100	-3.1	072	3.5	74	0.8
058	3.0	85	0.0	073	4.4	80	2.2
059	3.02	80	0.1	074	5.19	84	3.4
060	5.48	80	3.8	075	2.26	95	-1.1
061	3.67	93.5	1.0	076	3.78	66	1.2
062	2.06	97	-1.4	077	1.5	86	-2.3
063	7	uncorr	6.1	078	2.16	91.0	-1.3
064	2.1	112.0	-1.3	079	5.3	uncorr	3.5
065	3.22	95.5	0.4	080	2.0	80	-1.5
066	1.8	uncorr	-1.8	081	3.65	71.4	1.0
067	2.9	84	-0.1	082	2.6	96	-0.6

uncorr = participant did not state recovery or stated not corrected for recovery
z-scores outside the satisfactory range, i.e. $|z| > 2$, are shown in **bold**

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 standard deviation $\hat{\sigma}$	uncertainty <i>u</i>	derived from	σ_p
OTA	70	2.99	0.97	0.12	Horwitz*	0.66

* see page 6/7 for the 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 %
OTA	64	82	78