

Table I: Results and z-Scores for Edible Oil Test Material

laboratory number	analyte											
	total arsenic		copper		iron		lead					
	assigned value µg/kg	z-score	assigned value µg/kg	z-score	assigned value µg/kg	z-score	assigned value µg/kg	z-score	assigned value µg/kg	z-score		
001	715	-0.7	575	-1.2	1440	-2.4	119	-1.4	169	-1.4		
002	1374	4.3	665	-0.5	2030	-0.4	118	-1.4				
003	810	0.0	2539	15.0	14510	40.0	535	10.4				
004	787.6	-0.1	642.4	-0.6	1727.2	-1.4	206.6	1.1				
005	942	1.0	496	-1.8	2750	1.9	156	-0.4				
006	939	1.0	744	0.2	1898	-0.9	160	-0.3				
007			<600		3660	4.8	81.5	-2.5				
008	400	-3.0	<1000		3060	2.9						
009	1007	1.5	<1000		2478	1.0	206	1.1				
010	980	1.3	723	0.0	2187	0.1	217	1.4				
011	327.8	-3.6	703.0	-0.1	2032.0	-0.4	174.61	0.2				
012	765	-0.3	824	0.9	2200	0.1	187	0.5				
013	71.03	-5.5	489.27	-1.9	1113	-3.4	110.75	-1.6				
014	1020	1.6	823	0.9	7000	15.7	190	0.6				
015	856.02	0.4	748.16	0.2	3146.99	3.2	154.52	-0.4				

results are as submitted by participants z-scores outside the satisfactory range, i.e. |z| > 2, are shown in **bold**

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

laboratory number	analyte											
	total arsenic		copper		iron		lead					
	assigned value µg/kg	z-score	assigned value µg/kg	z-score	assigned value µg/kg	z-score	assigned value µg/kg	z-score	assigned value µg/kg	z-score	assigned value µg/kg	z-score
016			820	0.8			176					
017	843.66	0.3	644.84	-0.6	2557.04	1.3	330.07					0.2
018	821.4	0.1	624.8	-0.8	3259.1	3.5	167.5					4.6
019	828.0	0.2	837.9	1.0	2508.0	1.1	202.1					0.0
020			622	-0.8	2490	1.1	166					0.9
021	734	-0.5	843	1.0	2329	0.5	291					-0.1
022	958.11	1.2	957.16	2.0	2079.39	-0.3	180.88					3.5
023 ▲			0.13 mg/Kg	†	0.21 mg/Kg	†	2.36 mg/Kg					0.3
024	591.50	-1.6	671.22	-0.4			144.77					†
025	611.80	-1.4	831.58	0.9	1860.66	-1.0	109.35					-0.7
026	901	0.7					134					-1.7
027	761	-0.3	287	-3.6	2145	-0.1	109					-1.0
028			843	1.0	2510	1.1	802					-1.7
029	362	-3.3	988	2.2	2016	-0.5	180					17.9
030	1208	3.0	848	1.1	2219	0.2	205					0.3

results are as submitted by participants z-scores outside the satisfactory range, i.e. $|z| > 2$, are shown in **bold**
participants' comments submitted with results: ▲ the concentration unit is mg/kg † results not assessed due to participant's comment

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

laboratory number	analyte													
	total arsenic		804		copper		720		iron		2165		lead	
	assigned value	µg/kg	assigned value	µg/kg	assigned value	µg/kg	assigned value	µg/kg	assigned value	µg/kg	assigned value	µg/kg	assigned value	µg/kg
031	817	0.1	751	0.3	2223	0.2	159	-0.3	153	0.2	159	0.2	159	-0.3
032	727	-0.6	595	-1.0	4110	6.3	153	-0.4	46.7	6.3	153	0.2	153	-0.4
033	628	-1.3	152	-4.7	1894	-0.9	151	-0.5	176	-0.9	151	-0.9	151	-3.5
034	873	0.5	729	0.1	1894	-0.9	151	-0.5	176	-0.9	151	-0.9	151	-0.5
035	653	-1.1	664	-0.5	664	-0.5	664	-0.5	664	-0.5	664	-0.5	664	0.2

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

Table 2: Assigned Values and Target Standard Deviations

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
total arsenic	29	804	184	34.2	Horwitz*	133
copper	30	720	159	29.0	Horwitz*	121
lead	33	169	48.9	8.51	Horwitz*	35.3
	data points, <i>n</i>	mode, \hat{X}	standard error of mode, SEM	uncertainty, <i>u</i>	derived from	σ_p
iron	29	2165	90.6	91	Horwitz*	308

*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 %
total arsenic	24	30	80
copper	26	30	87
iron	20	29	69
lead	27	33	82