



Table 1: Results and z-Scores, Dried Fig Test Material

laboratory number	analyte														
	AFB <sub>1</sub>			AFB <sub>2</sub>			AFG <sub>1</sub>			AFG <sub>2</sub>			total AF		
	assigned value	4.20 µg/kg	recovery %	assigned value	1.39 µg/kg	recovery %	assigned value	2.10 µg/kg	recovery %	assigned value	0.28 µg/kg	recovery %	assigned value	7.89 µg/kg	recovery %
001●	4.2	uncorr	0.0	1.3	uncorr	-0.3	3.7	uncorr	3.5	0.28	61.5	0.0	9.2	uncorr	0.8
002	3.72	68.0	-0.5	1.32	69.5	-0.2	2.23	53	0.3	0.28	61.5	0.0	8.06	59.5	0.1
003	4.8	67	0.6	1.4	75	0.0	2.2	72	0.2	0.2	79	-1.3	8.6	0.4	0.4
004	3.5	96.0	-0.8	1.1	84.2	-0.9	1.4	84.7	-1.5	<0.5	60.4		6.0		-1.1
005	3.5	96	-0.8	1.4	99	0.0	1.9	97	-0.4	0.3	102	0.3	7.1	99	-0.5
006	6.2	92.7	2.2	2.0	103.7	2.0	2.8	96.3	1.5	Not Detected (<0.17)			11.0		1.8
007	4.87	92.6	0.7	1.72	89.0	1.1	2.31	95.0	0.5	0.36	60.7	1.3	9.26	84.3	0.8
008	2.99	99.5	-1.3	1.03	101.0	-1.2	1.49	106.1	-1.3	<0.2	104.1		5.51		-1.4
009	4.03	82	-0.2	1.09	88	-1.0	2.31	80	0.5	0.27	60	-0.2	7.70		-0.1
010	3.37	95.73	-0.9	1.32	95.73	-0.2	1.74	98.93	-0.8	0.21	96.00	-1.2	6.64	98.42	-0.7
011	4.20	87	0.0	1.50	86	0.4	2.50	89	0.9	0.30	73	0.3	8.60	N/A	0.4
012	2.7965	93.4	-1.5	0.8539	94.0	-1.7	1.6217	88.6	-1.0	0.2443	94.0	-0.6	5.5164	92.0	-1.4
013	4.67	uncorr	0.5	1.43	uncorr	0.1	2.24	uncorr	0.3	0.29	uncorr	0.1	8.63	uncorr	0.4
014	3.3	77	-1.0	0.9	83	-1.6	1.6	89	-1.1	0.3	75	0.3	6.1	81	-1.0
015	4.83	71.3	0.7	1.52	74.8	0.4	2.26	73.5	0.3	<0.5	76.4		8.86	74.0	0.6

results are as submitted by participants      uncorr = participant did not state recovery      **bold** = z-score with |z| > 2  
 Participants' comment: ● = Aflatoxin G2 used internal standard.

Table 1 (continued): Results and z-Scores, Dried Fig Test Material

laboratory number	analyte															
	AFB <sub>1</sub>			AFB <sub>2</sub>			AFG <sub>1</sub>			AFG <sub>2</sub>			total AF			
	assigned value	µg/kg	recovery %	assigned value	µg/kg	recovery %	assigned value	µg/kg	recovery %	assigned value	µg/kg	recovery %	assigned value	µg/kg	recovery %	z-score
016	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	4.96	uncorr	-1.7	
017	4.53	81	0.4	1.56	84	0.6	2.06	95	-0.1	0.28	88	0.0	8.43	87	0.3	
018	4.2	84	0.0	1.7	75	1.0	2.0	67	-0.2	0.4	74	1.9	8.3		0.2	
019	5.62	87	1.5	1.66	87	0.9	2.88	85	1.7	0.49	51	<b>3.3</b>	10.65		1.6	
020	4.37	81	0.2	1.41	82	0.1	2.18	76	0.2	0.27	79	-0.2	8.23		0.2	
021	4.45	66.9	0.3	1.47	77.4	0.3	2.12	72.9	0.0	0.21	70.2	-1.2	8.25	71.9	0.2	
022	5.04	98	0.9	1.51	95	0.4	2.52	87	0.9	0.29	78	0.1	9.36		0.8	
023	4.31	91	0.1	1.46	95	0.2	1.81	94	-0.6	0.22	95	-1.0	7.81		0.0	
024	3.7	66	-0.5	1.2	66	-0.6	1.5	66	-1.3	0.2	66	-1.3	6.6	66	-0.7	
025	3.91	90.1	-0.3	1.08	108.7	-1.0	1.71	97.1	-0.8	0.23	86.1	-0.8	6.93	94.5	-0.6	
026	3.94	87.0	-0.3	1.42	89.0	0.1	2.67	84.0	1.2	0.34	90.0	0.9	8.37		0.3	
027	4.33	94	0.1	1.49	92	0.3	2.24	97	0.3	0.29	89	0.1	8.35	93	0.3	
028	3.83	86	-0.4	1.15	84	-0.8	1.66	83	-1.0	0.37	67	1.4	7.01	83	-0.5	
029	3.2	100.6	-1.1	1.1	102.6	-0.9	1.8	102.1	-0.6	0.2	100.8	-1.3	6.3	101.5	-0.9	
030	3.7	85.8	-0.5	1.2	87.8	-0.6	1.9	88.4	-0.4	0.2	88.2	-1.3	7.0		-0.5	

results are as submitted by participants      uncorr = participant did not state recovery      **bold** = z-score with  $|z| > 2$

Table 1 (continued): Results and z-Scores, Dried Fig Test Material

laboratory number	analyte													
	AFB <sub>1</sub>			AFB <sub>2</sub>			AFG <sub>1</sub>			AFG <sub>2</sub>			total AF	
	assigned value µg/kg	recovery %	z-score	assigned value µg/kg	recovery %	z-score	assigned value µg/kg	recovery %	z-score	assigned value µg/kg	recovery %	z-score	assigned value µg/kg	recovery %
031	4.43	88	0.2	1.57	79	0.6	2.28	91	0.4	L.L.O.D	63	8.28	80	0.2
032	4.4	87	0.2	1.3	83	-0.3	2.1	87	0.0	0.2	76	8.0	83	0.1
033												2.86	88	<b>-2.9</b>
034	4.6	79	0.4	1.4	81	0.0	2	83	-0.2	0.2	55	8.2		0.2
035	4.42	95	0.2	1.64	93	0.8	2.28	97	0.4	0.24	88	8.58		0.4
036	11.8	83.3	<b>8.2</b>	5.31	91.9	<b>12.9</b>	8.23	80.5	<b>13.3</b>	0.918	87.7	26.2		<b>10.6</b>
037	3.86	89	-0.4	1.26	89	-0.4	1.77	89	-0.7	0.27	89	7.16	89	-0.4
038	4.00	88.1	-0.2	1.26	92.2	-0.4	2.00	118.3	-0.2	0.31	93.3	7.57	98.0	-0.2
039	5.37	81	1.3	1.28	90	-0.3	2.87	96	1.7	0.22	91	9.74	90	1.1
040	4.11	97	-0.1	1.42	95	0.1	2.02	91	-0.2	0.34	61	7.89	86	0.0
041	3.09	100	-1.2	0.94	100	-1.5	1.50	100	-1.3	<LOQ	93	5.53	98	-1.4
042	3.3	87.5	-1.0	1.3	85.0	-0.3	1.8	88.5	-0.6	0.3	62.0	6.7		-0.7
043	9.08	74.9	<b>5.3</b>	2.51	80.5	<b>3.7</b>	4.54	62.8	<b>5.3</b>	0.51	73.3	16.63		<b>5.0</b>
044	3.9	80	-0.3	1.3	90	-0.3	2.0	80	-0.2	0.4	90	7.6	80	-0.2
045	4.67	66.4	0.5	1.34	80.2	-0.1	2.03	63.8	-0.2	0.33	73.6	8.37		0.3

results are as submitted by participants

uncorr = participant did not state recovery

**bold** = z-score with  $|z| > 2$

Table 1 (continued): Results and z-Scores, Dried Fig Test Material

laboratory number	analyte													
	AFB <sub>1</sub>			AFB <sub>2</sub>			AFG <sub>1</sub>			AFG <sub>2</sub>			total AF	
	assigned value	µg/kg	recovery %	assigned value	µg/kg	recovery %	assigned value	µg/kg	recovery %	assigned value	µg/kg	recovery %	assigned value	µg/kg
046	5.3	32.3	1.2	1.9	57.7	1.7	3.5	38.9	3.0	1.0	59.0	11.7	11.7	2.2
047	3.73	100.6	-0.5	1.45	90.3	0.2	2.56	64.5	1.0	0.23	80.8	7.97	7.97	0.0
048	4.4	uncorr	0.2	1.2	uncorr	-0.6	1.9	uncorr	-0.4	0.23	uncorr	7.73	7.73	uncorr
049	3.53	uncorr	-0.7	1.19	uncorr	-0.6	1.85	uncorr	-0.5	0.21	uncorr	6.78	6.78	uncorr
050	5.9	80	1.8	1.6	86	0.7	3.0	73	1.9	0.4	79	10.9	10.9	1.7
051	5.14	74	1.0	1.64	72	0.8	2.19	81	0.2	0.30	84	9.26	9.26	0.8
052	3.05	98	-1.2	1.00	98	-1.3	1.30	98	-1.7	0.16	98	5.51	5.51	98
053	3.17	88.7	-1.1	1.09	89.4	-1.0	1.56	76.4	-1.2	0.18	75.7	5.99	5.99	-1.1
054	4.14	85	-0.1	1.71	85	1.1	1.77	85	-0.7	0.16	85	7.78	7.78	85

results are as submitted by participants

uncorr = participant did not state recovery

**bold** = z-score with  $|z| > 2$

Table 2: Assigned Values and Target Standard Deviations

analyte	assigned value, µg/kg			target standard deviation, µg/kg	
	data points, $n$	robust mean, $\hat{X}$	robust standard deviation, $(\hat{\sigma})$	uncertainty, $u$	derived from $\sigma_p$
AFB <sub>1</sub>	48	4.20	0.859	0.124	Horwitz*
AFB <sub>2</sub>	48	1.39	0.279	0.040	Horwitz*
AFG <sub>1</sub>	48	2.10	0.492	0.071	Horwitz*
AFG <sub>2</sub>	42	0.28	0.087	0.013	Horwitz*
Total AF	49	7.89	1.63	0.233	Horwitz*

\*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, %
AFB <sub>1</sub>	49	52	94
AFB <sub>2</sub>	50	52	96
AFG <sub>1</sub>	48	52	92
AFG <sub>2</sub>	41	45	91
Total AF	50	54	93

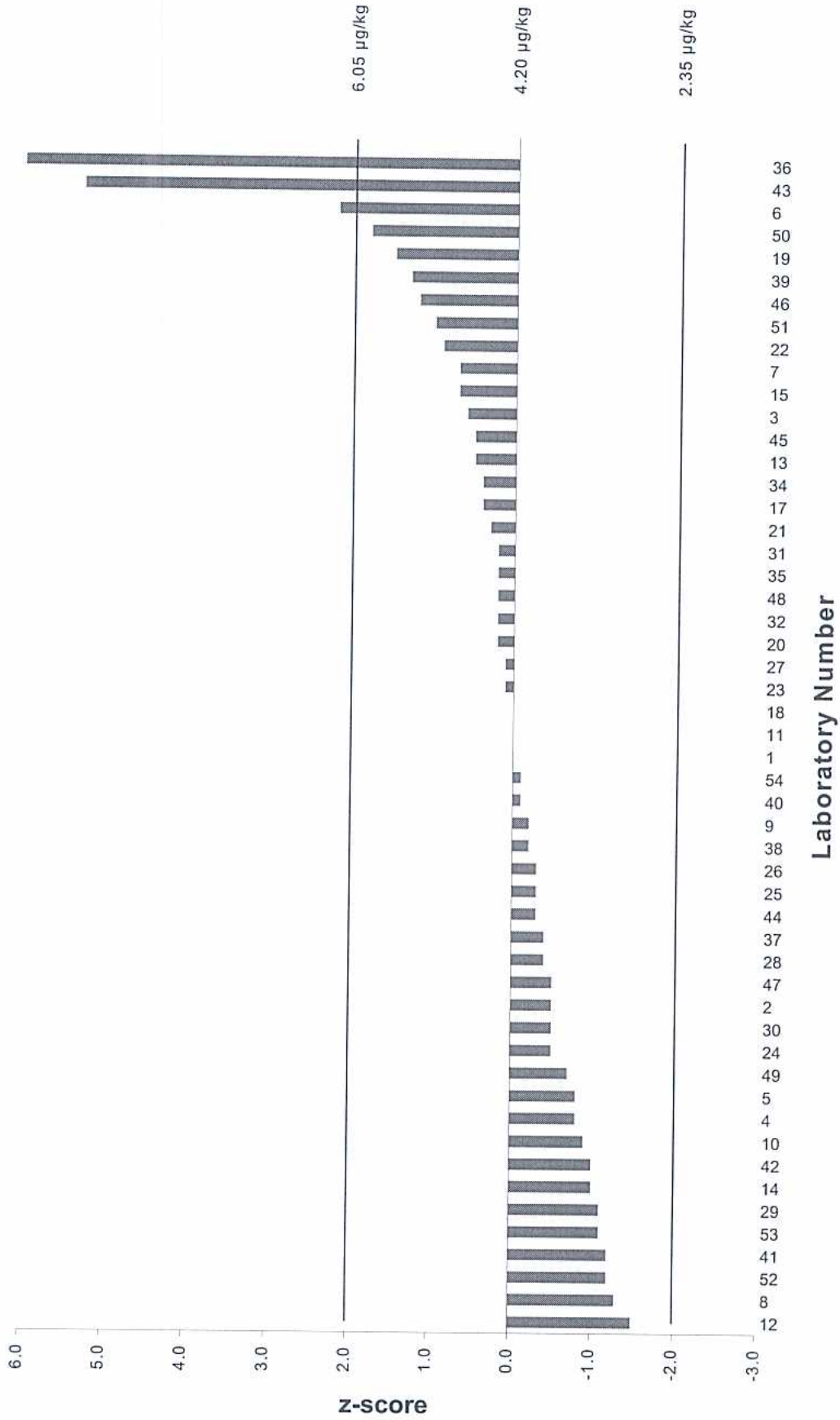


Figure 1: z-Scores for Aflatoxin B<sub>1</sub> (4.20 µg/kg) in Dried Fig Test Material

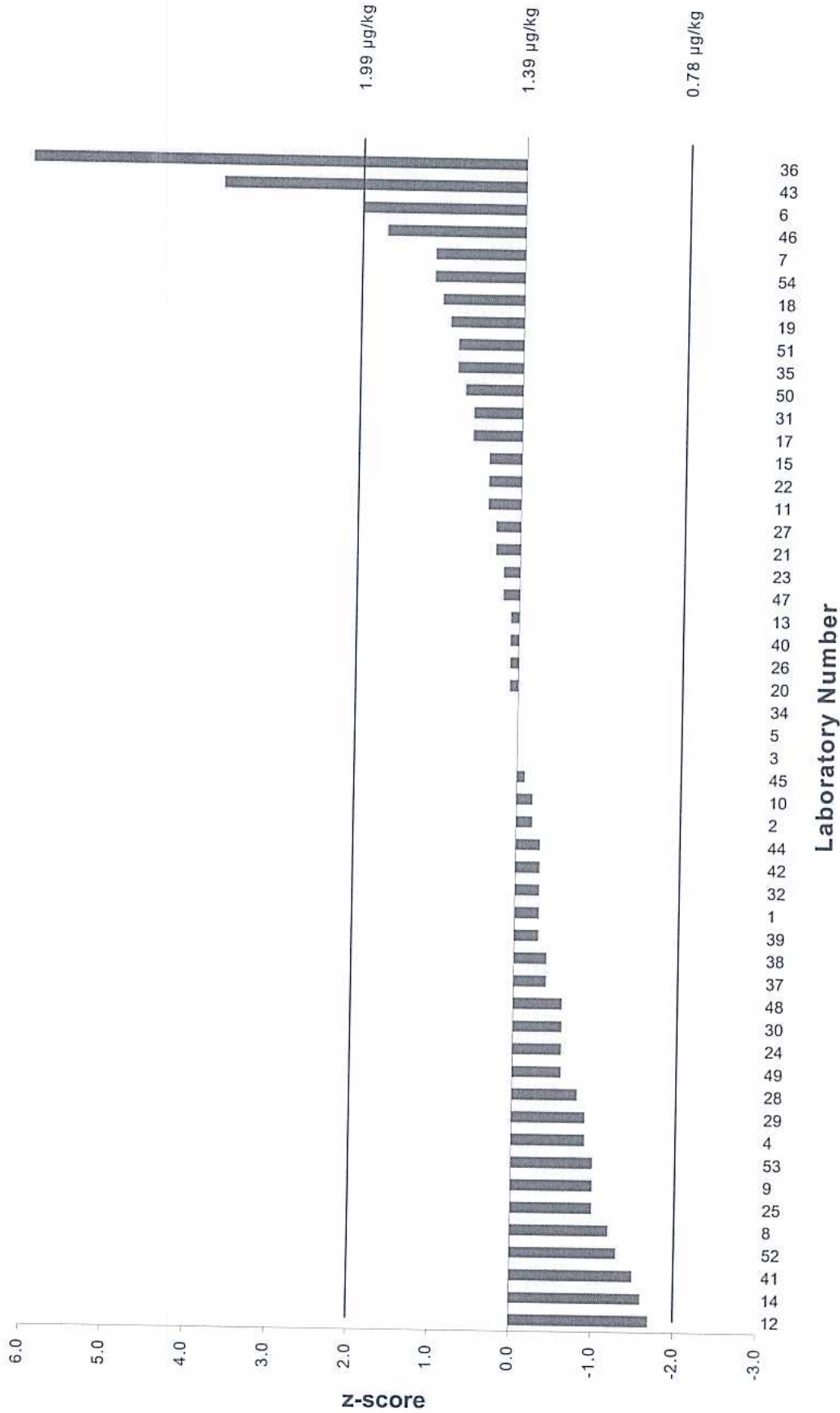


Figure 2: z-scores for Aflatoxin B<sub>2</sub> (1.39 µg/kg) in Dried Fig Test Material

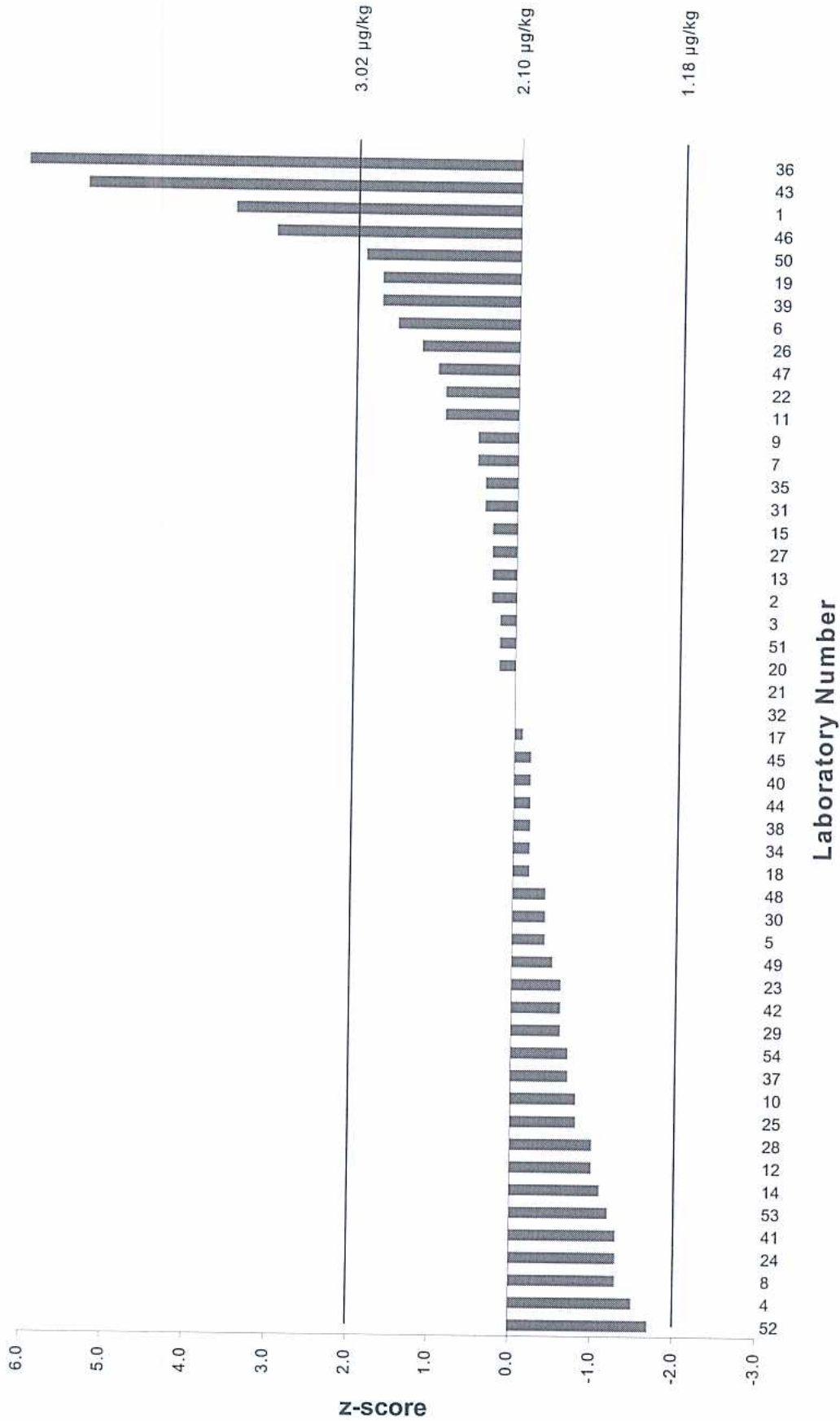


Figure 3: z-Scores for Aflatoxin G<sub>1</sub> (2.10 µg/kg) in Dried Fig Test Material

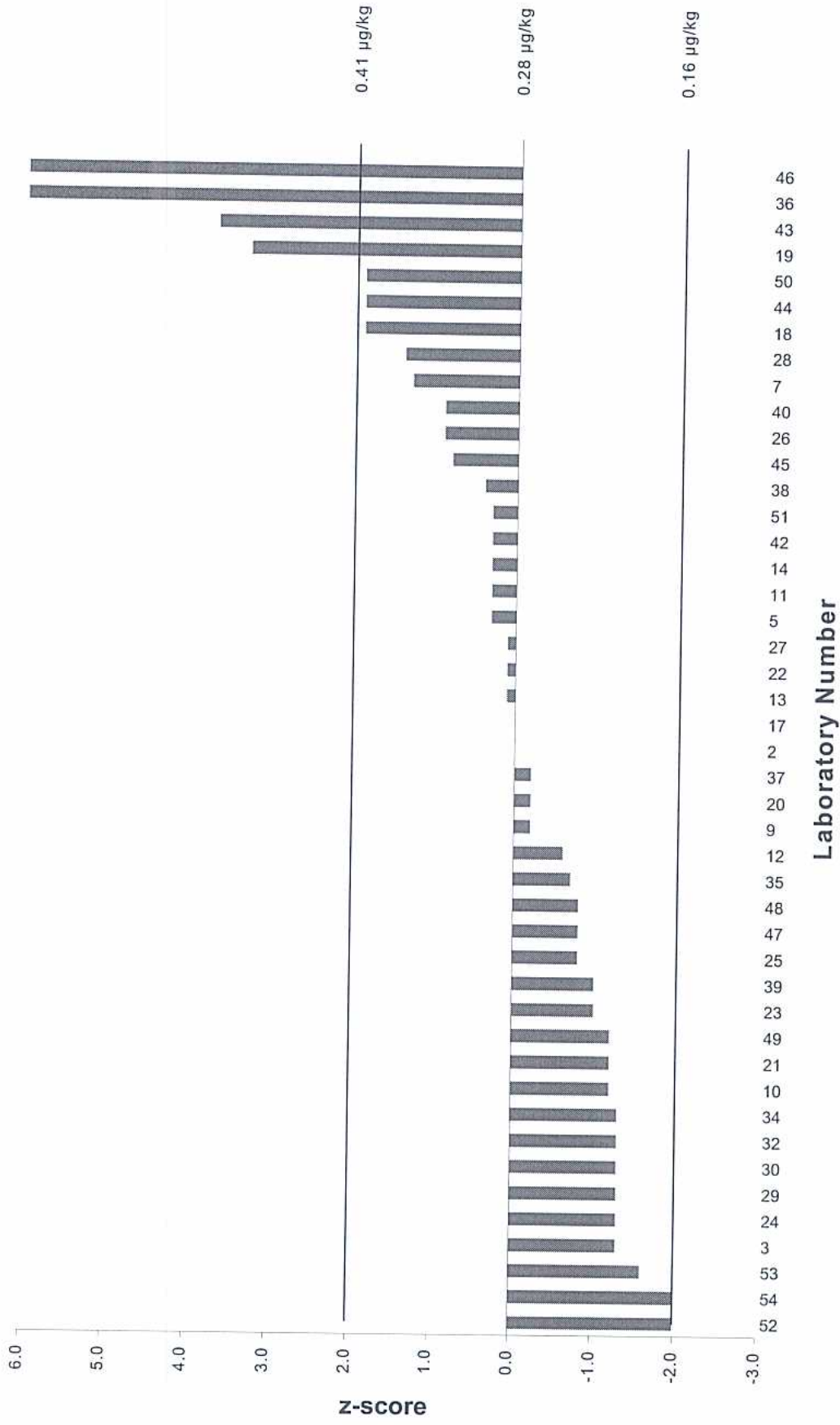


Figure 4: z-Scores for Aflatoxin G<sub>2</sub> (0.28 µg/kg) in Dried Fig Test Material

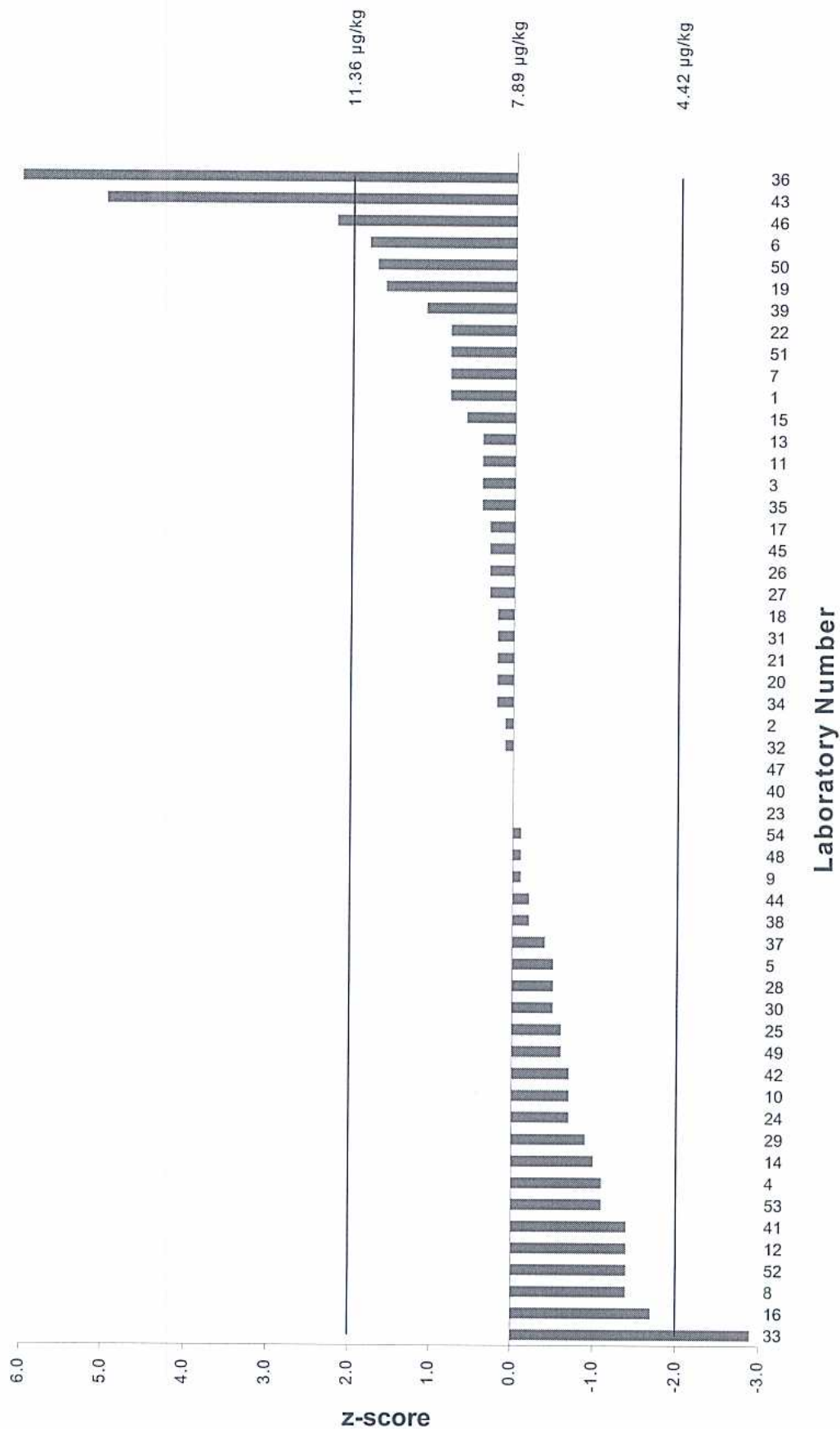


Figure 5: z-Scores for Total Aflatoxin (7.89 µg/kg) in Dried Fig Test Material

**APPENDIX I: Homogeneity Data for Dried Fig Test Material**

sample id	analyte											
	AFB <sub>1</sub> µg/kg		AFB <sub>2</sub> µg/kg		AFG <sub>1</sub> µg/kg		AFG <sub>2</sub> µg/kg		total AF µg/kg			
	replicate 1	replicate 2	replicate 1	replicate 2	replicate 1	replicate 2	replicate 1	replicate 2	replicate 1	replicate 2	replicate 1	replicate 2
1	3.82	3.92	1.23	1.25	1.76	1.72	0.20	0.16	7.01	7.05		
2	4.37	3.79	1.39	1.29	2.10	1.77	0.24	0.26	8.10	7.11		
3	4.39	3.89	1.43	1.30	2.35	2.07	0.29	0.23	8.46	7.49		
4	4.43	4.39	1.36	1.41	1.78	2.19	0.27	0.28	7.84	8.27		
5	4.09	4.30	1.30	1.26	1.85	2.07	0.19	0.22	7.43	7.85		
6	4.42	4.02	1.39	1.30	2.28	1.85	0.26	0.23	8.35	7.40		
7	3.89	4.03	1.25	1.27	2.10	1.80	0.25	0.18	7.49	7.28		
8	4.36	4.23	1.34	1.30	2.25	2.29	0.24	0.26	8.19	8.08		
9	4.20	3.91	1.28	1.22	2.22	1.89	0.24	0.24	7.94	7.26		
10	3.32	4.34	1.12	1.39	2.09	2.52	0.25	0.26	6.78	8.51		
mean, n	4.11	20	1.30	20	2.05	20	0.24	20	7.69	20		
origin of target sd ( $\sigma_p$ )	Horwitz	<120ppb	Horwitz	<120ppb	Horwitz	<120ppb	Horwitz	<120ppb	Horwitz	<120ppb		
abs. target sd ( $\sigma_p$ ) & as RSD%	0.9032	22.0	0.2869	22.0	0.4505	22.0	0.0523	22.0	1.693	22.0		
$S_{sam}$	0.3133		0.0768		0.2209		0.0254		0.5787			
$S_{sam}^2$	0		0		0.0057		0.0005		0			
$\sigma_{fail}^2$	0.0734		0.0074		0.0183		0.0002		0.2579			
critical	0.2372		0.0199		0.0836		0.0011		0.8231			
$S_{sam}^2 < \text{critical?}$	ACCEPT		ACCEPT		ACCEPT		ACCEPT		ACCEPT			