Table 1: Results and z-Scores for ESBO In Tomato Sauce Test Material

laboratory number	analyte			
	ESBO			
	assigned value 55.8 mg/kg			
	result mg/kg	corrected for recovery	% recovery	z-score
001	57.3	Yes		0.3
002	122	No		**13.6**
003	61.0	No	Not applicable	1.1
004	40.8	No		**-3.1**
005	52.5	No		-0.7
006	47.3	No	●	-1.8
007	40.1	yes	94	**-3.2**
008	60.9	yes	100	1.0
009	61.58	No		1.2
010	32.2	No	104	**-4.8**
011	60	yes	108	0.9
012	49.8	NO		-1.2
013	44			**-2.4**
014	57.45	Yes	71,9▲	0.3
015	55	no		-0.2
016	0.073	Yes	84.1	**-11.4**
017	52.07	N		-0.8
018	54.6	Yes	85.3	-0.3
019	55.5	yes	94	-0.1
020	43.3	yes		**-2.6**
021	56	no		0.0

Participant comments:
● = recovery by internal standard
▲ = recovery is extraordinarily low

Table 2: Assigned Value and Target Standard Deviation

analyte	assigned value				target standard deviation mg/kg	
	data points, *n*	mode, $\hat{X}$, mg/kg	standard error of mode, SEM	uncertainty, *u*	derived from	σ_p
ESBO	20	55.8	1.06	1.06	Horwitz*	4.88

*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 %
ESBO	14	21	67

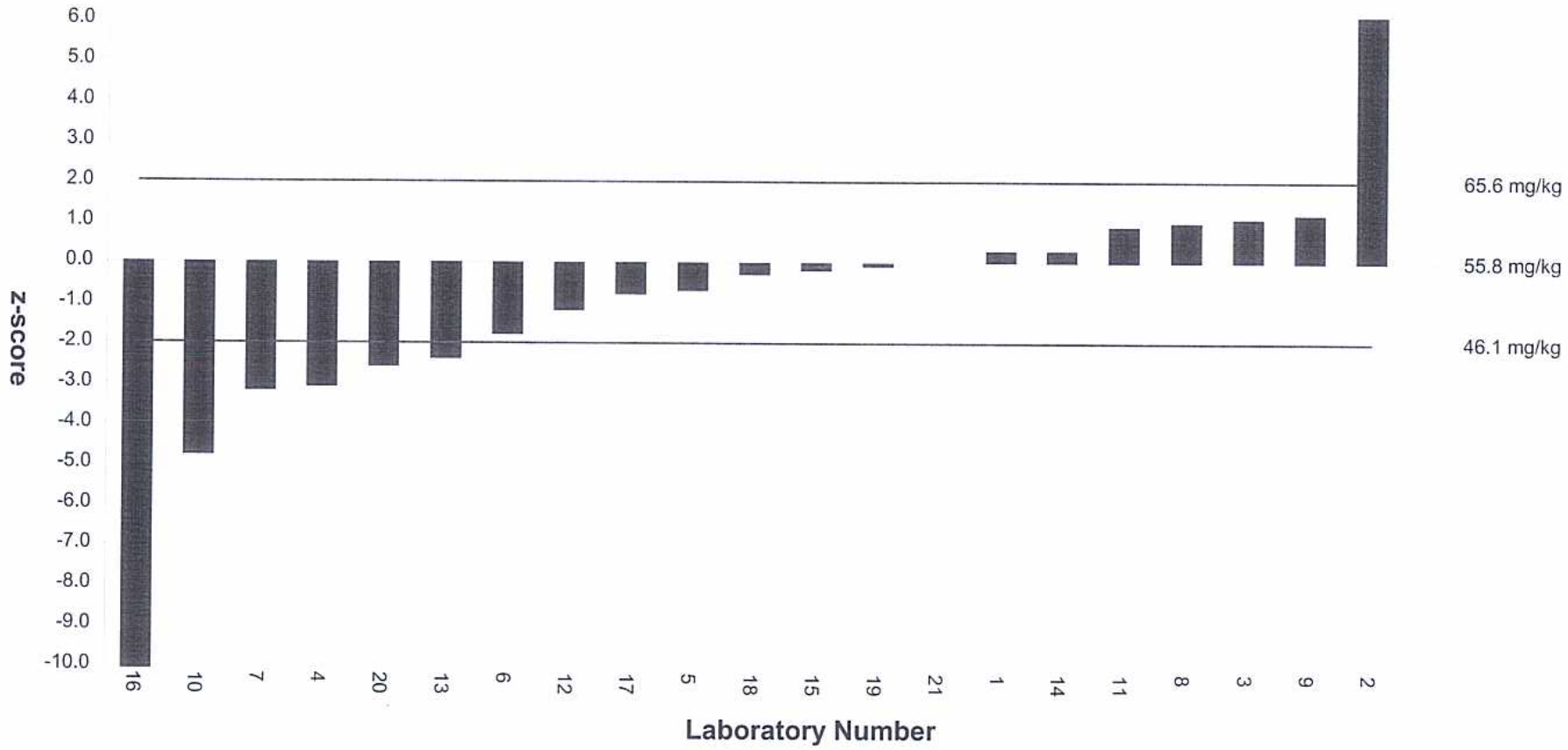

Figure 1: z-Scores for ESBO (55.8 mg/kg) in Tomato Sauce Test Material

APPENDIX I: Homogeneity Data for Tomato Sauce Test Material

sample number	analyte	
	ESBO mg/kg	
	replicate 1	replicate 2
1	58.2	57.0
2	59.1	57.3
3	54.5	53.9
4	55.2	53.6
5	54.4	52.8
6	53.5	53.6
7	59.8	59.0
8	55.9	52.1
9	56.4	55.7
10	52.8	57.2
mean, n	55.6	20
origin of target sd (σ_p)	Horwitz	original
abs. target sd (σ_p) & as RSD%	4.86	8.74
s_{an}	1.50	
s_{sam}^2	3.31	
σ_{all}^2	2.12	
Critical	6.27	
s_{sam}^2<*critical?*	**ACCEPT**	