

Table 7. Comparison of data from this study with reference data (mg/day/person).

Compound	Use	Group A/B *	The present study	MB	Production statistics	Administrative inspection
			1999	1995-1996	1995	1996
Aspartame	Sweetener	A	2.55	2.20	3.49	
Xylitol	Sweetener	B	4.45			
Glycyrrhizine	Sweetener	B	0.301	1.80	0.002	
Sodium saccharin	Sweetener	A	0.760	0.416	2.27	7.64
D-Sorbitol	Sweetener	B	895	1930	1216	
D-Mannitol	Sweetener	B	1006	308	1.96	
Amaranth	Food color	A	0	0.007	0.030	
Erythrosine	Food color	A	0.00235	0.012	0.070	
Allura red AC	Food color	A	0	0.014	0.000	
New cocchine	Food color	A	0.00608	0.021	0.398	
Phloxine	Food color	A	0	0.028	0.052	
Rose bengale	Food color	A	0	0.001	0.008	
Acid red	Food color	A	0.0000959	0.006	0.078	
Tartrazine	Food color	A	0.000671	0.630	0.523	
Sunset yellow FCF	Food color	A	0.000128	0.110	0.262	
Fast green FCF	Food color	A	0	0.000	0.000	
Brilliant blue FCF	Food color	A	0	0.024	0.084	
Indigo carmine	Food color	A	0	0.000	0.017	
Titanium dioxide (Titanium)	Food color	B	0		0.035	
$\beta$ -Carotene	Food color	B	1.93	2.51	0.087	
Norbixine	Food color	A	0	0.000	0.048	
Sulfurous acid	Preservative	B	0	0.0722	9.02	1.45
Benzoic acid	Preservative	A	0.836	2.67	4.0	11.0
Sorbic acid	Preservative	A	17.9	27.4	33.9	26.0
Dehydroacetic acid	Preservative	A	0	0.100	0.35	0.0474
Isobutyl p-hydroxybenzoate	Preservative	A	0	0.012	0.382	1.06
					(as p-hydroxybenzoate)	(as p-hydroxybenzoate)
Isopropyl p-hydroxybenzoate	Preservative	A	0	0.012		
Ethyl p-hydroxybenzoate	Preservative	A	0.0759	0.000		
Butyl p-hydroxybenzoate	Preservative	A	0.177	0.100		
Propyl p-hydroxybenzoate	Preservative	A	0	0.000		
Propionic acid	Preservative	B	2.30	3.10	0.96	5.43
EDTA (EDTACa <sub>2</sub> Na)	Antioxidant	A	0	0.000	0.087	
Erythorbic acid	Antioxidant	A	0.167	0.877	8.06	
Isopropyl citrate (Monoisopropyl citrate)	Antioxidant	A	0	0.000	0.002	
L-Cysteine hydrochloride (Cysteine)	Antioxidant	B	98.1		0.000	
Butylated hydroxytoluene	Antioxidant	A	0	0.066	0.262	0.220
d- $\alpha$ -Tocopherol ( $\alpha$ -Tocopherol)	Antioxidant	B	7.84	7.33	0.122	
d- $\beta$ -Tocopherol ( $\beta$ -Tocopherol)	Antioxidant	B	0.264			
d- $\gamma$ -Tocopherol ( $\gamma$ -Tocopherol)	Antioxidant	B	8.16			
d- $\delta$ -Tocopherol ( $\delta$ -Tocopherol)	Antioxidant	B	2.98			
Butylated hydroxyanisole	Antioxidant	A	0	0.003	0.009	0.105
Propyl gallate	Antioxidant	A	0		0.035	
Nitrite (NO <sub>2</sub> )	Color fixative	B	0.339	1.15	0.340	1.07
Nitrate (NO <sub>3</sub> )	Color fixative	B	289	232	0.249	1.43
Imazalil	Antifungal agent	A	0	0.000	0.000	0.0111
o-Phenylphenol	Antifungal agent	A	0	0.000	0.000	0.00897
Diphenyl	Antifungal agent	A	0	0.000	0.000	0.0000395
Thiabendazole	Antifungal agent	A	0.001070	0.00012	0.000	0.0267
L-Aspartic acid (Aspartic acid)	Seasoning	B	371	341	3.75	
DL-Alanine (Alanine)	Seasoning	B	532	390	29.6	
Disodium 5'-inosinate (Inosinic acid)	Seasoning	B	28.2	49.6	29.8	
Disodium 5'-uridylylate (Uridylic acid)	Seasoning	B	1.22	1.05	0.037	
Disodium 5'-guanylate (Guanylic acid)	Seasoning	B	3.63	2.49	2.33	
Glycine	Seasoning	B	296	289	113.3	
L-Glutamic acid (Glutamic acid)	Seasoning	B	1900	1150	1540	
Disodium 5'-cytidylate (Cytidylic acid)	Seasoning	B	0.133	0.000	0.011	
L-Theanine (Theanine)	Seasoning	B	21.3		0.17	
L-Isoleucine (Isoleucine)	Dietary supplement	B	199	156	0.066	
L-Tryptophan (Tryptophan)	Dietary supplement	B	35.7	42.1	0.009	
L-Threonine (Threonine)	Dietary supplement	B	147	145	0.085	
L-Valine (Valine)	Dietary supplement	B	276	206	0.023	
L-Histidine hydrochloride (Histidine)	Dietary supplement	B	331	312	0.022	
L-Phenylalanine (Phenylalanine)	Dietary supplement	B	271	198	0.13	
DL-Methionine (Methionine)	Dietary supplement	B	95.4	70.8	0.294	
L-Lysine hydrochloride (Lysine)	Dietary supplement	B	336	253	0.584	
L-Ascorbic acid (Total of oxidized and reduced style)	Dietary supplement	B	113	114	71.2	
L-Ascorbyl stearate	Dietary supplement	A	0	0.000	0.000	
L-Ascorbyl palmitate	Dietary supplement	A	0	0.000	0.002	
Thiamine hydrochloride	Dietary supplement	B	0.732	0.876	0.271	
Riboflavin	Dietary supplement	B	1.43	1.16	0.281	
Glycerol	Processing agent	B	857	1076	52.3	
Silicone resin (dimethylpolysiloxane)	Processing agent	A	0.424		1.40	
					(as Si-resin)	
Propylene glycol	Processing agent	A	10.6	37.4	17.4	41.4
Adipic acid	Acidifier	B	1.47		2.62	
Citric acid	Acidifier	B	2056	1667	343	
Gluconic acid	Acidifier	B	83.3	87.6	57.0	
Succinic acid	Acidifier	B	193	94.8	19.5	
L-Tartaric acid	Acidifier	B	83.1	61.9	18.9	
Lactic acid	Acidifier	B	2593	1080	98.1	
Acetic acid	Acidifier	B	851	458	115	
Fumaric acid	Acidifier	B	33.4	54.2	17.4	
DL-Malic acid	Acidifier	B	1699	896	95.1	
Calcium	Miscellaneous	B	497	675	57.6	
Orthophosphoric acid	Miscellaneous	A	2094	724	136	
Aluminum	Miscellaneous	B	7.69	6.17	3.94	

Compound	Use	Group A/B *	The present study	MB	Production statistics	Administrative inspection
			1999	1995-1996	1995	1996
Iron	Miscellaneous	B	9.43	9.44	0.463	
Magnesium	Miscellaneous	B	328	316	4.52	
Nordihydroguaiaretic acid	Antioxidant	B	0			
Naringin	Bittering agent	B	0			
Hesperidine	Dietary supplement	B	18.5			
Kojic acid	Processing agent	B	0			
L-Asparagine (Asparagine)	Dietary supplement	B	336			
L-Glutamine (Glutamine)	Dietary supplement	B	611			
L-Arginine (Arginine)	Dietary supplement	B	368	400		
L-Cystine (Cystine)	Dietary supplement	B	3.11			
L-Serine (Serine)	Dietary supplement	B	230	222		
L-Hydroxyproline (Hydroxyproline)	Dietary supplement	B	4.53			
L-Tyrosine (Tyrosine)	Dietary supplement	B	119	93.5		
L-Proline (Proline)	Dietary supplement	B	275	325		
L-Leucine (Leucine)	Dietary supplement	B	396	282		

\* Group A/B: Food additives in Group A do not from naturally occur and those in Group B do.