

No. 84/05 November 2005

SURVEY OF BENZOATES AND SORBATES IN SOFT DRINKS

Summary

- Benzoates (E210-213) and sorbates (E200, E202-203) are used as preservatives in various foodstuffs. A survey of their use in soft drinks has been conducted to determine the actual usage levels of these additives in drinks and to ensure manufacturers are complying with legislation.
- The samples consisted of concentrates (squashes), carbonated drinks and ready-to-drink still drinks.
- Out of 300 soft drinks sampled, four (1%) contained levels of benzoic acid in excess of the maximum permitted limit of 150 mg/l. The levels found in these four samples were not a concern for consumer health, but there is a need to ensure compliance with additive legislation.
- For the four drinks with levels of benzoic acid above statutory limits, manufacturers have taken steps to avoid reoccurrence of these problems. The Food Standards Agency is working with local authorities to ensure that the law on these additives is fully observed. Local enforcement authorities have been informed of the results from this survey and have confirmed that they are happy with the action taken by the drink manufacturers to resolve these issues.
- Four other drinks (1%) contained levels of sorbic acid likely to have a technological function, but which were not declared on the ingredients label. For these products either the brand owners have addressed these problems or the products are no-longer on sale.

Background

Benzoates and sorbates are widely used food preservatives and are often used in combination in soft drinks, such as carbonated drinks and squashes.

The use of benzoates and sorbates in foods is controlled by The Miscellaneous Food Additives Regulations 1995 (Statutory Instrument (SI) 3187)¹ as amended. Benzoates and sorbates are permitted to be used in non-alcoholic flavoured drinks (excluding dairy-based drinks). The maximum permitted level for benzoates in soft drinks is 150 mg/l (expressed as benzoic acid). The maximum permitted level for sorbates is also expressed as the free acid and is 300 mg/l when used singly or 250 mg/l when used in combination with benzoates. The maximum permitted levels refer to foods ready for consumption as prepared following manufacturers' instructions. Therefore for concentrates (squashes) the levels apply to the drinks when diluted according to manufacturers' recommendations.

Soft drinks are likely to be the major contributing factor to the intake of benzoates and sorbates for young children, due to the high levels of consumption of these products by this age group. The information from this survey will be used to further refine intake estimates for these preservatives, and to inform future EU discussions on maximum permitted levels of benzoates and/or sorbates in foods.

The preservatives considered in this study are benzoic acid (E210), sodium benzoate (E211), potassium benzoate (E212), calcium benzoate (E213), sorbic acid (E200), potassium sorbate (E202) and calcium sorbate (E203). The acceptable daily intakes (ADI) for sorbic and benzoic acid are 25 and 5 mg/kg body weight/day respectively. The ADI is the amount of food additive, expressed on a body weight basis, that can be ingested daily over a lifetime without appreciable health risk.

Methodology

Sampling

Three hundred samples of soft drinks were purchased by Ventress Technical Ltd. (Ventress), between October 2004 and February 2005 from eight regions in the UK. The

majority of samples were purchased in triplicate with samples bearing the same batch codes and best before dates.

Samples from each region were analysed after collection and any high levels (above the maximum permitted levels) or unusual results (unlabelled preservatives) were notified to the brand owners once the confirmed results for each region were received. The relevant Home Authority for the brand owner was also notified of these results.

The samples consisted of concentrates (squashes), carbonated drinks and ready-to-drink still drinks. These also included mixers, sports/health/energy drinks and flavoured water products. Soft drinks, which did not declare either benzoates or sorbates on the ingredient list, yoghurt/dairy/flavoured milk drinks, milk shake syrups, fruit juices and alcoholic beverages were excluded from the survey. To allow sufficient time for analysis, products with less than eight weeks to their “best before end” dates from date of purchase were not sampled. A breakdown of the products tested is given below.

- 159 carbonated drinks
- 51 ready-to-drink still drinks
- 90 concentrates (squashes)

The eight areas sampled in the UK (and their sample codes) are given below:

- Belfast and district (218NI, 32 samples),
- Birmingham and district (218MI, 42 samples)
- Cardiff and district (218WA, 30 samples)
- Exeter and district (218SW, 36 samples)
- Glasgow and district (218SC, 30 samples)
- London (218LO, 52 samples)
- Newcastle-upon-Tyne and district (218NE, 39 samples)
- Norwich and district (218EA, 39 samples)

In order to maximise the number of different drinks analysed, there was no duplication of sampling of products.

Samples were purchased from different types of shops: 127 from large supermarkets; 94 from smaller retailers (including independent grocers); and 79 from 'impulse purchases' i.e. newsagents, petrol stations, cafes and/or street vendors.

Following purchase of triplicate samples, digital images were taken and labelling and packaging details recorded. One of the three samples was despatched to RSSL under appropriate conditions (i.e. chilled if necessary) for analysis in batches relating to each region. The remaining two samples were retained by Ventress under dark and cool conditions (below 15°C). However, if required (i.e. high levels of preservatives or undeclared preservatives were found in the sample when analysed by RSSL) one of these samples was sent to Somerset Scientific Services (SSS) for confirmatory analysis.

For fifteen products selected at random, one bottle or can was subdivided into two containers and frozen at -20°C until dispatch to RSSL and Somerset Scientific Services for confirmatory analysis to check the different methods used by the two laboratories gave similar results.

Table 1 lists product details for the samples collected for this survey.

Analytical Methodology

The method of analysis was the RSSL in-house UKAS accredited method reference TM147 (with a minor adjustment to pH).

Carbonated beverages were de-gassed by sonication prior to dilution. Ready to drink samples were diluted 1:10 by volume with 0.01M ammonium acetate solution (pH adjusted to 3.9). Flavoured fruit concentrates, cordials and squashes were diluted 1:20. Prior to HPLC analysis all diluted samples were filtered through a 0.7µm glass fibre membrane.

Samples were analysed in batches of up to 40 samples. The limit of quantification (LOQ) for the method was 5 mg/l (although traces of both preservatives could be confirmed by diode array spectrum at levels below this).

The results for this survey are given in Table 2.

Standard Solutions

Mixed calibration standards were freshly prepared on the day of analysis. These contained 20 mg/l each of potassium sorbate and sodium benzoate in pH 3.9 buffer.

Quality Control (QC) Samples

The quality control sample contained 412 mg/l potassium sorbate and 180 mg/l sodium benzoate. This was prepared at the beginning of the study and stored under dark and refrigerated conditions (4 °C).

HPLC Analysis

The HPLC system was an Agilent 1100 with Diode Array detection. HPLC conditions are outlined below:

Column	Phenomenex Columbus C18 (150 x 4.56mm)
Temperature	45°C
Flow rate	1.0 ml/min
Detection Wavelength	235nm bandwidth 4nm – Sodium benzoate 254nm bandwidth 4nm – Potassium sorbate
Reference Wavelength	550nm bandwidth 100nm
Injection volume	25µl
Mobile phase A	0.01M ammonium acetate solution at pH 3.9
Mobile phase B	Acetonitrile

Gradient program

Time (mins)	% Mobile phase A	% Mobile phase B
0	90	10
20	50	50
22	50	50
25	90	10
30	90	10

Peaks for the preservatives were identified primarily by retention time with respect to the calibration standards, and diode array spectral match was used to confirm identity. Results for the preservatives were expressed as the free acid i.e. as benzoic acid and sorbic acid in accordance with the Miscellaneous Food Additives Regulations 1995.

Quality Assurance

A system suitability sample (Robinsons Orange and Peach Fruit Shoot) was run with each analytical batch to ensure adequate separation of peaks. The following quality assurance protocols also included:

- Duplicate analysis of 1 in every 10 samples.
- A QC sample was run with each analytical batch.
- Any sample found to have undeclared preservatives or preservative present at 95% or above of the maximum permitted levels (142.5 mg/l of benzoic acid or 285 mg/l sorbic acid) was re-analysed by both RSSL and Somerset Scientific Services.

Confirmatory Analysis

Table 3 shows the results obtained by RSSL and Somerset Scientific Services for the 15 random samples analysed to investigate the variation in analytical results between the two laboratories. While the specific HPLC methodologies employed by RSSL and Somerset Scientific Services were different (giving reverse elution orders), there was strong agreement between results from the two different laboratories and pairwise t-test and regression analysis on the data showed no statistically significant differences between results obtained in the two laboratories.

Samples that were found to contain levels of benzoates and/or sorbates above 95% of their respectively maximum permitted levels, or undeclared preservative, were also sent to Somerset Scientific Services for independent confirmatory analysis (Table 4).

Analytical Uncertainty

The measurement uncertainty for benzoic and sorbic acid at a specified level, was estimated by both laboratories. The uncertainty was estimated to be plus or minus 9 mg/l for concentrations of 180 mg/l sorbic acid and 6.3 mg/l at 125 mg/l for benzoic acid.

Reporting

Brand names have been reported as this survey was carried out in accordance with the guidelines for reporting survey results published in the Guidelines for Food Standards Agency Technical Surveys² in October 2003. The absence of a particular brand from Table 1 means only that the brand was not sampled in the survey. No further meaning should be read into its absence from this report.

Results, Interpretation and Action

Results are given in Table 2. Four samples contained benzoic acid above the maximum permitted level of 150 mg/l. The levels in these samples were above the legal limit after taking into account variation in performance of the analytical methods used by both laboratories.

Analysis of three additional products indicated they contained levels of benzoates at, or slightly above the legal limit of 150 mg/l. However taking into account the measurement of uncertainty associated with the analysis these samples were not considered to be in excess of the statutory limit.

Four other samples contained significant levels of undeclared sorbic acid (Table 4). These levels were considered to be sufficient to have a technological function in the finished product and so should have been included in the list of ingredients. This contravenes Regulation 14 of the Food Labelling Regulations 1996³, which requires all additives added to a food to be listed by category followed by the additives specific name or 'E' number, for example "Preservative (Sorbic Acid)".

Details of the results for the above products were notified to the manufacturer or supplier for their comments and the relevant local enforcement Authority for investigation. The majority of companies contacted declined the opportunity to provide a formal comment for publication in this information sheet.

In the case of the four samples containing levels of benzoates above the legal limit and the four samples containing significant levels of unlabelled preservatives, all but one of the brand owners have responded saying that they have investigated the matter and have

taken appropriate action to ensure that all stock now complies with the relevant legislation or that the products are no longer on sale. Local enforcement authorities for seven of these products have been in contact with these companies and have confirmed that they are content with the steps taken by the manufacturers to resolve these problems. For the other product, 218LO38 Original – Natural Mango Fruit Drink was manufactured in the Kingdom of Saudi Arabia and was found to contain unlabelled sorbate (86 mg/l sorbic acid). However, there were no details of the importer for this product. The relevant enforcement authority for the shop where the drink was purchased has confirmed that this product is no longer on sale.

Twelve products (4%) contained very low levels of these preservatives, which therefore served no significant technological function in the finished products. The presence of these additives was due to the use of sorbates and benzoates in ingredients used in the manufacture of the drinks concerned, or due to cross-contamination from other products in the production line. Under regulation 17 of the Food Labelling Regulations 1996, any additive which is present in the food solely because it was contained in an ingredient of the food does not need to be named in the list of ingredients if the additive serves no significant technological function in the finished product. Therefore for these twelve products the preservatives found at very low levels do not need to be included in the ingredients list.

In conclusion, of 300 products investigated, 296 (98.6%) were shown to meet regulations on benzoate and sorbate levels and 296 met labelling requirements. Of those which failed to meet regulatory requirements, the high levels of preservatives reported in this survey are not a concern for consumer health, however, there is a need to ensure compliance with additive and labelling regulations and action has been taken to ensure compliance.

References

1. The Miscellaneous Food Additives Regulations 1995 (Statutory Instrument No 3187, as amended).
2. Food Standards Agency Guidelines for Food Standards Agency Technical Surveys, October 2003.
3. The Food Labelling Regulations 1996 (S.I. No. 1996/1499, as amended).

Further Information

Units

mg/l = milligrams per litre

mg/kg bw = milligrams per kilogram of bodyweight

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E-mail: library&info@foodstandards.gsi.gov.uk.

A copy of the full report of this survey has been placed in the Library, Aviation House, 125 Kingsway, London, WC2B 6NH Tel. No. + 44 (0) 20 7276 8281/8182. If you wish to consult it please contact the library for an appointment giving at least 24 hours notice or alternatively copies can be obtained from the library: a charge will be made to cover photocopying and postage.

Table 1: Details of samples obtained

Sample code	Product as described	Brand	Manufacturer	Pack size	Country of origin	Best before/use by date	Batch code	Time code	Date purchased/sampled	Declared benzoate and/or sorbate	Place of purchase
218EA01	Orange	Lucozade Energy	GlaxoSmithKline	380 ml	None declared	FEB 2005	354C B	11:27	11/11/04	E211	Thresher Wine Shop
218EA02	Diet Coke	Coca-Cola	Coca-Cola Enterprises Ltd	330 ml	None declared	JAN 05	B 189 MK2	20:52 x 2, 20:53 x 1	11/11/04	E211	Thresher Wine Shop
218EA03	Original Bitter Lemon	Schweppes	Coca-Cola Enterprises Ltd	1 litre	GB	JAN 05	A 174WA5	11:00	11/11/04	E211	Thresher Wine Shop
218EA04	Fruit Fling	Tango	Britvic Soft Drinks Ltd	500 ml	None declared	FEB 05	B3L 4232	02:32	11/11/04	E202	Woolworths
218EA05	Citrus Clear	Lucozade Energy	GlaxoSmithKline	380 ml	None declared	FEB 2005	344C A	15:16	11/11/04	E211	Woolworths
218EA06	Sparkling Cola	Little Smashers	The Silver Spring Mineral Water Company Ltd	330 ml	None declared	10 JUL 05	SS L4287	15:08	11/11/04	E211	One Stop Convenience Stores
218EA07	Fruit Spring Apple & Cranberry	Robinsons	Robinsons Soft Drinks Ltd	440 ml	None declared	JUL 05	N7 42922156	None declared	11/11/04	E202	One Stop Convenience Stores
218EA08	Lemonade	Happy Shopper	Booker	2 litres	None declared	MAY 2005	4230 K4B	20:17	11/11/04	E211	Abbeygate Garage Ltd
218EA09	Whole Orange Drink	Mace	Mace Marketing Services	1 litre	EU	OCT 05	L4 202 MU	10:14 x 1, 10:15 x 2	11/11/04	E211	Abbeygate Garage Ltd
218EA11	Orange	Tango	Britvic Soft Drinks Ltd	500 ml	None declared	FEB 05	B3L 4243	21:51	11/11/04	E202	Abbeygate Garage Ltd
218EA12	Energy - Refresh Yourself	Boost	Boost Drinks Ltd	500 ml	UK	JAN 05	2 4186	12:38 x 1, 12:48 x 2	11/11/04	E211	Abbeygate Garage Ltd
218EA13	Lemonade - No Added Sugar	Mace Value Pack	Mace Marketing Services	2 litres	EU	MAY 2005	L4200 V2	12:05 x 1, 14:28 x 1, 14:29 x 1	11/11/04	E211	Abbeygate Garage Ltd
218EA14	Apple & Blackcurrant Squash - No Added Sugar	Waitrose	Waitrose Limited	1 litre	UK	JUL 05	L290 D4	01:27 x 2, 01:28 x 1	11/11/04	E202	Waitrose
218EA15	Orange Squash - No Added Sugar	Waitrose	Waitrose Limited	1 litre	UK	JUL 05	L297 D4	17:09 x 1, 17:10 x 1, 17:16 x 1	11/11/04	E202	Waitrose
218EA16	Bitter Lemon	Waitrose	Waitrose Limited	1 litre	UK	APR 2005	4200 K3B	08:55	11/11/04	E211	Waitrose
218EA17	Blackcurrant - No Added Sugar	Panda Still	Hall & Woodhouse Ltd	330 ml	None declared	FEB 05	L4213 B	11:42	11/11/04	E202, E211	Waitrose
218EA18	Zesty Orange	Slayker	464 Drinks Ltd	500 ml	None declared	FEB 05	None declared	None declared	11/11/04	E202, E211	Budgens Local
218EA19	Wolfberry & Guarana	Indigo	Vimto Soft Drinks	500 ml	None declared	FEB 05	K4A 4045	04:18	11/11/04	E202, E211	Budgens Local
218EA20	Apple & Blackcurrant Squash	Budgens	Budgens Stores Limited	1 litre	UK	MAR 05	4065 D4	21:25 x 1, 21:27 x 2	11/11/04	E211	Budgens Local

Sample code	Product as described	Brand	Manufacturer	Pack size	Country of origin	Best before/use by date	Batch code	Time code	Date purchased/sampled	Declared benzoate and/or sorbate	Place of purchase
218EA21	Whole Orange Squash - No Added Sugar	Budgens	Budgens Stores Limited	1 litre	UK	JUN 05	4260 D4	04:32 x 1, 04:33 x 1, 04:53 x 1	11/11/04	E202	Budgens Local
218EA22	All American Taste Diet Cola	Budgens	Budgens Stores Limited	2 litres	UK	MAR 05	S2 4274	13:54 x 2, 13:55 x 1	11/11/04	E211	Budgens Local
218EA23	Kick Stimulation Drink	Tesco	Tesco Stores Ltd	250 ml	UK	OCT 05	L2A 4301	00:43 x 2, 00:44 x 1	11/11/04	E211	Tesco Express
218EA24	Original Florida Style	Sunny Delight	Procter & Gamble UK	1.5 litre	UK	28-02-05	4305109910 0632	None declared	11/11/04	E202	Tesco Express
218EA25	Peach Slightly Sparkling Spring Water Drink	Tesco	Tesco Stores Ltd	330 ml	Ireland	APR 05	4291	19:35 x 2, 19:36 x 1	11/11/04	E202	Tesco Express
218EA26	Whole Orange Squash - No Added Sugar	Tesco	Tesco Stores Ltd	1 litre	UK	JUL 05	4294 D4	23:02 x 2, 23:03 x 1	11/11/04	E202	Tesco Express
218EA27	Citrus Punch	Oasis	Coca-Cola Enterprises Ltd	500 ml	GB	MAR 05	A 262WAA	02:56	11/11/04	E202, E211	W H Smith
218EA28	Still Citrus Sports Rehydration Drink	Boots Shapers	The Boots Company plc	500 ml	None declared	30 MAR 05	SST L4245	20:40	11/11/04	E202, E211	Boots
218EA29	Still Apple Spring Water	Boots Shapers	The Boots Company plc	500 ml	None declared	11 MAY 05	SSC L4287	12:24	11/11/04	E202, E211	Boots
218EA30	Ginseng with Plum Sparkling Flavoured Natural Spring Water	Britannia	Aquarius Drinks Ltd	500 ml	England	DEC 05	4275	13:45 x 1, 13:47 x 2	11/11/04	E211	Café Venue, Debenhams
218EA31	Hemp with Grapefruit Sparkling Flavoured Natural Spring Water	Britannia	Aquarius Drinks Ltd	500 ml	England	NOV 05	4266	09:46 x 1, 14:33 x 1, 14:36 x 1	11/11/04	E211	Café Venue, Debenhams
218EA32	Lemon & Lime Flavour Spring Water Drink	Superdrug	Superdrug Stores plc	500 ml	None declared	FEB 05	L4231 B	16:26 x 1, 19:49 x 1, 20:01 x 1	11/11/04	E211	Superdrug
218EA33	Lightly Sparkling Spring Water with Fruit Juice - Tropical	Rio Light	Hall & Woodhouse Ltd	375 ml	None declared	APR 05	NB L4269	15:51 x 1, 18:57 x 2	11/11/04	E202, E211	Superdrug
218EA34	Apple & Blackcurrant Juice Drink	Iceland Kids Crew	Iceland Foods plc	250 ml	None declared	FEB 05	C4 4233	14:49	11/11/04	E202	Iceland
218EA35	Sparkling Strawberry & Kiwi Natural Flavour Spring Water	Hadrian Clear	Hadrian Spring Water Co.	500 ml	None declared	APR 2005	L4194 V1	04:16	11/11/04	E202	BHS
218EA36	Whole Orange Drink	Happy Shopper	Booker	1 litre	None declared	AUG 05	4217 D4	14:17	11/11/04	E211	Xpress Stores
218EA37	Orange Drink	Morrisons Bettabuy	Wm Morrison Supermarkets plc	1 litre	None declared	JUN 05	L4 4249	06:13 x 2, 06:14 x 1	11/11/04	E211	Morrisons
218EA38	Orange Squash - No Added Sugar	Morrisons	Wm Morrison Supermarkets plc	1 litre	None declared	JUN 05	L4 4249	14:38 x 1, 14:39 x 2	11/11/04	E202, E211	Morrisons
218EA39	Original Blackcurrant Juice Drink	Morrisons	Wm Morrison Supermarkets plc	1 litre	None declared	SEP 05	L4 4261	03:30 x 2, 10:51 x 1	11/11/04	E202	Morrisons
218EA40	Apple Squash - No Added Sugar	Morrisons	Wm Morrison Supermarkets plc	1 litre	None declared	JUN 05	L4 4251	01:47 x 1, 01:50 x 1, 01:51 x 1	11/11/04	E202	Morrisons
218LO01	Original Sarsaparilla	Baldwin's	Baldwin's Sarsaparilla Limited	1 litre	UK	DEC 05	C 4338	14:47	30/01/05	E211	Tesco
218LO02	Sparkling Cherry Cola	Tesco	Tesco Stores Ltd	2 litres	UK	JUL 05	5022 C1	16:34	30/01/05	E211	Tesco

Sample code	Product as described	Brand	Manufacturer	Pack size	Country of origin	Best before/use by date	Batch code	Time code	Date purchased/sampled	Declared benzoate and/or sorbate	Place of purchase
218LO03	Diet Cola	Virgin	The Virgin Drinks Group Ltd	2 litres	UK	AUG 05	S2 5011	08:57	30/01/05	E211	Tesco
218LO04	Sugar Free Cola	Tesco Value	Tesco Stores Ltd	2 litres	UK	JUN 05	4 4348	00:05	30/01/05	E211	Tesco
218LO05	Cranberry and Grapefruit Mix It	Tesco	Tesco Stores Ltd	1 litre	UK	JUN 05	1 4356	15:15	30/01/05	E202, E211	Tesco
218LO06	Low Calorie Apple & Blackcurrant Drink	Tesco Value	Tesco Stores Ltd	1 litre	UK	SEP 05	4352 D4	00:45	30/01/05	E211	Tesco
218LO07	Low Calorie Indian Tonic Water With a Twist of Lime	Tesco	Tesco Stores Ltd	1 litre	UK	JUL 05	1 5004	20:11 x 1, 22.12 x 2	30/01/05	E211	Tesco
218LO08	Passion Fruit & Mango Cordial	Belvoir	Belvoir Fruit Farms	375 ml	None declared	DEC 2006	346	09:07	30/01/05	E202	Tesco
218LO09	Fruit & Barley Apple & Blackcurrant Squash - No Added Sugar	Sainsbury's	Sainsbury's Supermarkets Ltd	1 litre	UK	APR 05	D7 4210	10:11	30/01/05	E202	Sainsbury's
218LO10	Cola	Sainsbury's Low Price	Sainsbury's Supermarkets Ltd	2 litres	UK	SEP 2005	5007 K4B	0946 x 2, 1022 x 1	30/01/05	E211	Sainsbury's
218LO11	Diet Bitter Lemon	Sainsbury's	Sainsbury's Supermarkets Ltd	1 litre	UK	SEP 2005	5011 K3B	15:42	30/01/05	E211	Sainsbury's
218LO12	Grapefruit Flavoured Spring Water Sparkling Drink	Sainsbury's	Sainsbury's Supermarkets Ltd	1 litre	UK	JUN 05	L4357 SSCG	15:03	30/01/05	E211	Sainsbury's
218LO13	Root Beer	Sainsbury's	Sainsbury's Supermarkets Ltd	2 litres	UK	SEP 05	L5014 SSTC	04:45	30/01/05	E211	Sainsbury's
218LO14	Mixed Fruits Squash - No Added Sugar	Sainsbury's	Sainsbury's Supermarkets Ltd	1 litre	UK	AUG 05	4334 D4	23:10 x 2, 23:11 x 1	30/01/05	E211	Sainsbury's
218LO15	Grape 'n' Apple - 10% Fruit Juice - No Added Sugar	Panda Fruiti Pops	Hall & Woodhouse Ltd	330 ml	None declared	JUN 05	L4345 B	17:45 x 1 17:46 x 2	30/01/05	E202, E211	Sainsbury's
218LO16	Diet Coke Caffeine Free	Coke	Coca-Cola Enterprises Ltd	330 ml	None declared	JUN 05	A 359WA2	03:39	06/02/05	E211	Westhampstead Food & Wine
218LO17	Banana	Chubby	SMJ Beverages Europe Ltd	250 ml	Trinidad & Tobago	28/09/05	THT 1237	None declared	30/01/05	E211	Fair Deal Cash & Carry
218LO18	Apple & Strawberry Squash	Jucee	Princes Soft Drinks Ltd	2 litres	UK	JUN 05	D6 4263	04:06	06/02/05	E211	Westhampstead Food & Wine
218LO19	Jamaica Strawberry Flavour Cane Syrup	Ping's	Dees Imports	750 ml	Jamaica	DEC 2006	041250	None declared	30/01/05	E211	Fair Deal Cash & Carry
218LO20	Sparkling Pear Drink	Whiteway's Peardrax	Pepsi-Cola Trinidad Bottling Company Limited	300 ml	Trinidad & Tobago	OCT 2005	27604TD91 DL1	None declared	30/01/05	E211	Fair Deal Cash & Carry
218LO21	Fruit Salad - 10% Fruit Juice - No Added Sugar	Panda Fruiti Pops	Hall & Woodhouse Ltd	330 ml	None declared	MAR 05	L4235 B	15:22	30/01/05	E202, E211	Fair Deal Cash & Carry
218LO22	Sparkling Cherry Cherryade	Silver Spring	The Silver Spring Mineral Water Company Ltd	2 litres	None declared	29 APR 05	L4215 SSTC	17:26 x 1, 17:27 x 2	30/01/05	E211	Fair Deal Cash & Carry
218LO23	Sparkling Cola	Silver Spring	The Silver Spring Mineral Water Company Ltd	2 litres	None declared	17 JUN 05	L4264 SSTC	14:35	30/01/05	E211	Seyhan Supermarket
218LO24	Cola	Qibla	Qibla Cola Company Ltd	330 ml	None declared	08.06.2005	001	06:52 x 1, 06:53 x 2	30/01/05	E202, E211	West Green Halal Meats & Groceries Ltd

Sample code	Product as described	Brand	Manufacturer	Pack size	Country of origin	Best before/use by date	Batch code	Time code	Date purchased/sampled	Declared benzoate and/or sorbate	Place of purchase
218LO25	Diet Coke With Lime	Coke	Coca-Cola Enterprises Ltd	500 ml	None declared	JUN 05	A 006WA8	13:04	06/02/05	E211	Woolworths
218LO26	Orange & Tangerine Still Mineral Water Drink - Sugar Free	Purely Scottish Fruit 'n' Vits	Scottish Border Springs Ltd	500 ml	None declared	21.12.05	004478	None declared	06/02/05	E211	Woolworths
218LO27	Premium Lemonade	R Whites	Britvic Soft Drinks Ltd	330 ml	None declared	JUN 05	R5L 4167	22:38 x 1, 22:44 x 1, 22:47 x 1	30/01/05	E211	Filiz Supermarket
218LO28	Orange - Orange Flavored Drink	Uludag	Sema Foods Ltd	250 ml	Turkey	31 03 05	PD: 02 09 04	None declared	30/01/05	E202, E211	Filiz Supermarket
218LO29	Aqua Orange and Peach Detox	Tesco	Tesco Stores Ltd	500 ml	Ireland	DEC 05	4350	05:54 x 1, 05:55 x 2	19/02/05	E211	Tesco
218LO30	Blackcurrant Flavoured Still Drink	Slayker	464 Drinks Ltd	500 ml	None declared	MAY 05	111.7 , 41.98.	None declared	06/02/05	E202, E211	Buy Best
218LO31	Energy	VK	Global Brands Ltd	250 ml	None declared	APR 06	L4292 D	12:34	06/02/05	E211	Budgens
218LO32	Diet Coke With Lemon	Coke	Coca-Cola Enterprises Ltd	500 ml	None declared	JUN 05	A 024WA8	21:20	06/02/05	E211	Budgens
218LO33	Mulberry Syrup	Al Wadi Al Akhdar	Dove Processing SAL	600 ml	Lebanon	06/05/2005	_3126_	None declared	06/02/05	E211	Costcutter
218LO34	Orange, Lemon & Pineapple Squash	Sainsbury's	Sainsbury's Supermarkets Ltd	1 litre	UK	OCT 05	5004 D4	05:17 x 1, 05:18 x 2	06/02/05	E211	Sainsbury's
218LO35	Orange High Juice - No Added Sugar	Sainsbury's	Sainsbury's Supermarkets Ltd	1 litre	UK	AUG 05	D7 4313	20:32	06/02/05	E202	Sainsbury's
218LO36	Orange Squash - No Added Sugar	Sainsbury's Low Price	Sainsbury's Supermarkets Ltd	1 litre	UK	SEP 05	4364 D4	19:37	06/02/05	E211	Sainsbury's
218LO37	Jamaican Cherry Fruit Flavour Syrup	Dunn's River	Enco Products	700 ml	EEC	NOV 2006	None declared	None declared	06/02/05	E211	Sainsbury's
218LO38	Mango Fruit Drink - Natural	Original	Gulf Union Juice Factory	1 litre	None declared	E. 27/05/05	F. 05/09/04	19 00 x 2, 19 01 x 1	06/02/05	E211	West Way
218LO39	Twist of Forest Fruits - Sparkling Spring Water Drink	Prince's Gate	Prince's Gate Spring Water	500 ml	None declared	NOV 05	309 3 1156	None declared	16/02/05	E202	Holland & Barrett
218LO40	Blackcurrant Flavour Still Water Drink	Danone Activ	Danone	330 ml	UK	06.07.05	L4187	12.56 x 2, 12.58 x 1	16/02/05	E211	Holland & Barrett
218LO41	Strawberry and Lemon Drink (Fraise-Citron)	boowl	IN ZONE Brands Europe	330 ml	None declared	01-2006	12AJB5	None declared	16/02/05	E202, E211	Harrods
218LO42	Regenerate - Exotic Fruits Flavour + B vitamins + ginkgo + minerals	vitSmart	Vitaminsmart Limited	500 ml	None declared	17/01/06	20303 A	18:42	19/02/05	E202, E211	Waitrose
218LO43	Vimto - No Added Sugar	Vimto	Vimto Soft Drinks	2 litres	None declared	FEB 06	L3 5012	23:42	19/02/05	E202, E211	Tesco
218LO44	Sunny Delight with Calcium - No Added Sugar	Sunny Delight	Procter & Gamble UK	1.5 litres	UK	28-04-05	5039109910 1632	None declared	19/02/05	E202	Tesco
218LO45	Apple and Blackcurrant Squash High Juice - No Added Sugar	Tesco	Tesco Stores Ltd	1 litre	UK	JAN 06	5005 D7	11:52	19/02/05	E211	Tesco
218LO46	Lime Juice Cordial	Tesco	Tesco Stores Ltd	1 litre	UK	NOV 05	5033 D4	02:14	19/02/05	E211	Tesco
218LO47	Vimto - Original	Vimto	Vimto Soft Drinks	725 ml	None declared	FEB 06	5011 L3	08:27	19/02/05	E202, E211	Tesco

Sample code	Product as described	Brand	Manufacturer	Pack size	Country of origin	Best before/use by date	Batch code	Time code	Date purchased/sampled	Declared benzoate and/or sorbate	Place of purchase
218LO48	Orange Classic Barley Water	Robinsons	Robinsons Soft Drinks Ltd	1 litre	None declared	NOV 05	N11 4330	15:29	19/02/05	E202	Tesco
218LO49	Ginger Cordial	Belvoir	Belvoir Fruit Farms	375 ml	None declared	DEC 2006	348	16:56	19/02/05	E202	Tesco
218LO50	Calorie Controller - Pink Grapefruit Flavor + C Vitamin	vitSmart	Vitaminsmart Limited	500 ml	None declared	08/11/05	24601 A	10:17	19/02/05	E202, E211	Waitrose
218LO51	Orange & Mango - No Added Sugar	Robinsons Special R	Robinsons Soft Drinks Ltd	1 litre	None declared	JAN 06	N12 5014	18:13	19/02/05	E202	Waitrose
218LO52	Aqua Blackberry Boost	Tesco	Tesco Stores Ltd	500 ml	Ireland	DEC 05	4349	20:47 x 1, 22:26 x 2	19/02/05	E211	Tesco
218MI01	Orangina With Real Orange Pieces	Orangina	A G Barr plc	2 litres	None declared	AUG 05	M2 4330	13:48 x 2 13:49 x 1	09/01/05	E211	Asda
218MI02	Red Hot Orange	T & T	T & T Beverages Ltd	2 litres	None declared	MAR 05	K4B 4161	14:27 x 1 14:28 x 2	09/01/05	E202, E211	Asda
218MI03	Cola	Asda Smartprice	Asda Stores Limited	2 litres	UK	AUG 2005	4358 K4D	06:33	09/01/05	E211	Asda
218MI04	Cranberry & Raspberry Juice Drink	Ocean Spray	Princes Soft Drinks Ltd	1 litre	None declared	AUG 05	D7 4332	06:25	09/01/05	E202	Asda
218MI05	Strawberry and Blackberry	Hedgerow	Hedgerow (UK) Ltd	750 ml	None declared	JUL 05	L141940938	None declared	09/01/05	E211	Asda
218MI06	High Juice Fruit 50% Juice	Vimto	Vimto Soft Drinks (Nichols Foods)	1 litre	None declared	DEC 05	L3 4327	05:29	09/01/05	E202, E211	Asda
218MI07	Berry Blast - Five Fruit Squash With No Added Sugar	5 Alive	Coca-Cola Enterprises Ltd	1 litre	None declared	JUN 05	A 349SC8	22:07	09/01/05	E202	Asda
218MI08	Fiery Ginger Beer	Idris	Britvic Soft Drinks Ltd	1.5 litres	None declared	AUG 05	B4L 4328	10:24	09/01/05	E202	Asda
218MI09	Low Calorie Bitter Lemon	Asda	Asda Stores Limited	1 litre	UK	JUN 2005	4352 K3A	03:02	09/01/05	E211	Asda
218MI10	Orange and Pineapple In A Crush	Asda	Asda Stores Limited	2 litres	UK	JUN 2005	4326 1923 K4B	None declared	09/01/05	E202, E211	Asda
218MI11	Spiced Winter Berries Cordial	Belvoir	Belvoir Fruit Farms	375 ml	None declared	NOV 2006	320	12:39	09/01/05	E202	Asda
218MI12	Fruity Apple & Strawberry Hi Juice - No Added Sugar	Asda	Asda Stores Limited	1 litre	UK	JUN 05	D7 4344	14:42	09/01/05	E202	Asda
218MI13	Blackcurrant Juice Drink - No Added Sugar	C-Vit	GlaxoSmithKline	1 litre	None declared	JUL 2005	444B	12:50	09/01/05	E202, E211	Asda
218MI14	High Performance - Health and Vitality for Men	Wellman	Vitabiotics Ltd	250 ml	None declared	SEP 05	BN4247 L2B	15:54	09/01/05	E211	Asda
218MI15	Isotonic Orange Flavour Sports Drink	Asda	Asda Stores Limited	500 ml	UK	APR 05	4315 N01	03:32	09/01/05	E202, E211	Asda
218MI16	Clear Grapefruit Flavoured Drink - No Added Sugar	Morrisons	Wm Morrison Supermarkets plc	2 litres	None declared	04 SEP 05	L4343 SSUC	01:14 x 1 01:18 x 2	09/01/05	E211	Morrisons
218MI17	Doctor Pop	Morrisons	Wm Morrison Supermarkets plc	2 litres	None declared	APR 2005	4201 K2B	15:16	09/01/05	E211	Morrisons
218MI18	Original Cranberry Juice Drink	Ocean Spray	Princes Soft Drinks Ltd	1 litre	None declared	SEP 05	D7 4364	13:33	09/01/05	E202	Morrisons
218MI19	Ginger Beer	Morrisons	Wm Morrison Supermarkets plc	2 litres	None declared	SEP 2005	4356 C1	06:04	09/01/05	E202, E211	Morrisons

Sample code	Product as described	Brand	Manufacturer	Pack size	Country of origin	Best before/use by date	Batch code	Time code	Date purchased/sampled	Declared benzoate and/or sorbate	Place of purchase
218MI20	Peach Water H2O	The Simpsons	Hall & Woodhouse Ltd	330 ml	None declared	JUN 2005	L4335 B	11:21	09/01/05	E211	Morrisons
218MI21	Sparkling Grapefruit Spring Water Drink - No Added Sugar	Morrisons	Wm Morrison Supermarkets plc	330 ml	None declared	MAY 2005	4321 0957 K4A	None declared	09/01/05	E211	Morrisons
218MI22	Whole Orange Squash - No Added Sugar	Wells	Princes Soft Drinks Ltd	5 litres	UK	NOV 05	4327 D2	10:20 x 2 11:18 x 1	09/01/05	E211	Morrisons
218MI23	Pineapple and Grapefruit Concentrate	Sodastream Duo	Soda-Club Worldwide Trading Company	500 ml	Israel	15 MAY 2005	LOT 1694	18:05	09/01/05	E211	Morrisons
218MI24	Diet American Ginger Ale	Morrisons	Wm Morrison Supermarkets plc	1 litre	None declared	JUN 2005	4349 2	18:23	09/01/05	E211	Morrisons
218MI25	Pear and Blackcurrant Squash - No Added Sugar	Kia.Ora	Coca-Cola Enterprises Ltd	1 litre	None declared	AUG 2005	A 322SC8	12:35 x 1 13:22 x 1 13:23 x 1	09/01/05	E202	Morrisons
218MI26	Orange Squash - No Added Sugar	Kia.Ora	Coca-Cola Enterprises Ltd	1 litre	None declared	AUG 2005	A 321SC7	11:33	09/01/05	E202, E211	Morrisons
218MI27	Sparkling Spring Water With Apple & Cinnamon Flavour - Sugar Free	Strathmore	Strathmore Mineral Water Co.	1.5 litres	Scotland	DEC 2005	03 - Consecutive coding: 76622 x 1 76623 x 1 76626 x 1	16:09:32 x 2 16:09:33 x 1	09/01/05	E211	Morrisons
218MI28	Grape Flavour Soft Drink	Bigga	The Jamaica Drink Company Ltd	600 ml	Jamaica	JUN 2005	None declared	None declared	09/01/05	E211	Maher Supermarket
218MI29	Diet Cola	Premier	Nisa-Today's (Holdings) Ltd	2 litres	UK	JUN 2005	S2 4349	16:08 x 1 16:09 x 2	09/01/05	E211	Maher Supermarket
218MI30	Grape Soda	DG Jamaica	W.T. Foods Ltd	2 litres	UK	JUN 2005	4272 K2B	09:18	09/01/05	E211	Maher Supermarket
218MI31	Tonic Water With a Twist of Lemon	Nisa	Nisa-Today's (Holdings) Ltd	1 litre	UK	APR 2005	4213 C2	21:17	09/01/05	E211	Maher Supermarket
218MI32	RoohAfza - Summer Drink of the East	Hamdard	Hamdard Laboratories (WAQF)	750 ml	Pakistan	SEPT 2005	None declared	None declared	09/01/05	E210	Maher Supermarket
218MI33	Sparkling Cola	Prize	Frucoze Ltd	2 litres	None declared	MAY 2005	M2 4231	22:33 x 2 22:34 x 1	09/01/05	E211	Jag Supermarket
218MI34	Sparkling Cream Soda	Prize	Frucoze Ltd	2 litres	None declared	MAY 2005	M2 4222	12:45 x 1 12:46 x 1 12:56 x 1	09/01/05	E211	Jag Supermarket
218MI35	Royal Indian Tonic Water	Carters	Cott Beverages Ltd	1 litre	None declared	AUG 2005	4231 K3B	00:08	09/01/05	E211	Jag Supermarket
218MI36	Mango	Rubicon	Rubicon Products Ltd	330 ml	None declared	FEB 2006	A3 4235	00:05 x 2 00:06 x 1	09/01/05	E202, E211	Jag Supermarket
218MI37	Still Aqua Splash Orange & Mandarin	Radnor Hills	Radnor Hills	500 ml	None declared	20 JUN 2005	13912 C	22:35	09/01/05	E211	MG Garages Texaco
218MI38	Energy Original	Lucozade	GlaxoSmithKline	380 ml	None declared	APR 2005	404F A	00:49	09/01/05	E211	MG Garages Texaco
218MI39	Black Cherry	Boylan Bottleworks	Empire Foodbrokers Ltd	343 ml	None declared	MAR 2006	CT9Q 15604	12:34 x 2 12:35 x 1	09/01/05	E211	Selfridges

Sample code	Product as described	Brand	Manufacturer	Pack size	Country of origin	Best before/use by date	Batch code	Time code	Date purchased/sampled	Declared benzoate and/or sorbate	Place of purchase
218MI40	Still Cranberry & Blueberry Flavoured Spring Water	Superdrug	Superdrug Stores plc	500 ml	None declared	MAR 2005	L 4233 B	11:48	09/01/05	E202, E211	Superdrug
218MI41	Pepsi Twist	Pepsi	Britvic Soft Drinks Ltd	500 ml	None declared	MAY 2005	B3L 4308	18:58 x 2 18:59 x 1	09/01/05	E211	Superdrug
218MI42	Pepsi Max – No Added Sugar	Pepsi	Britvic Soft Drinks Ltd	500 ml	None declared	MAY 2005	R9L 4320	15:05	09/01/05	E211	Superdrug
218NE01	Lime 'N' Lemon - Sugar Free	Big Time	Big Time Soft Drinks Ltd	200 ml	None declared	JAN 2005	8 on bottom, 12 on lid x 1, 11 on bottom, 23 on lid x 1, 13 on bottom, 15 on lid x 1	None declared	14/09/04	E202, E211	Nisa Supermarket
218NE02	Cola - Sugar Free	Cool Characters	Independent Food Services Ltd	330 ml	None declared	APR 2005	SS L4214	20:54	14/09/04	E211	(Premier) Waterloo News & Wine Ltd
218NE03	Juice Drink - Apple & Raspberry - With Sugar and Sweeteners	Twist 'n' Squeeze	Princes Soft Drinks Ltd	200 ml	Austria	JUL 2005	J/3	None declared	14/09/04	E202	Co-op
218NE04	Limeade - Sugar Free	Tuck Shop	Tuck Shop	330 ml	None declared	APR 2005	4170 K3A	02:32	14/09/04	E211	D K News
218NE05	Itzred	Tizer	A G Barr plc	500 ml	None declared	JAN 2005	M3 4098	04:53, 04:52, 04:54	14/09/04	E211	Astley Garages
218NE06	Peach Flavour Spring Water Drink - No Added Sugar	Asda	Asda Stores Limited	1 litre	UK	FEB 2005	4232 K3A	20:58, 20:59, 17:04	14/09/04	E211	Asda
218NE07	High Juice Orange	Orchard Breeze	Lidl UK GmbH	1 litre	None declared	AUG 2005	C 4239	12:27	14/09/04	E202	Lidl
218NE08	Mixed Fruit Squash - No Added Sugar	Tesco	Tesco Stores Ltd	1 litre	UK	JUN 2005	4247 D4	20:57	15/09/04	E211	Tesco
218NE09	White Grape & Blackberry Slightly Sparkling Spring Water Drink	Tesco	Tesco Stores Ltd	330 ml	Ireland	FEB 2005	4 2 38	00:22, 00:23 x 2	15/09/04	E202	Tesco
218NE10	Everyday Low Calorie Orange Drink	Co-op	Co-operative Group (CWS) Ltd	1 litre	UK	JUL 2005	4194 D4	00:50 x 2, 00:55	15/09/04	E211	Co-op
218NE11	V33 Bubbleee	Villa	Villa Soft Drinks Ltd	330 ml	None declared	MAY 2005	L4197 U1	09:58	15/09/04	E211	The Food Weigh House
218NE12	Raspberry	Panda Still	Hall & Woodhouse Ltd	330 ml	None declared	JAN 2005	L4188 B	14:47	15/09/04	E202, E211	Woolworths
218NE14	Lemon & Lime - Sugar Free	Jet Pop	Sangs (Banff) Ltd	330 ml	Scotland	05 AUG 2005	L2	15:37	15/09/04	E211	Wilkinson
218NE15	Still Apple & Blackberry	Smashers	The Silver Spring Mineral Water Company Ltd	500 ml	None declared	03 MAY 2005	SST L4219	01:47, 01:59, 07:50	15/09/04	E211	Heron
218NE16	Strawberry Flavoured Sparkling Welsh Spring Water Drink	Radnor Valley	Radnor Hills	330 ml	Bottled at source	14 MAR 2005	12516 F	09:54 x 2, 09:55 x 1	15/09/04	E211	Home Bargains
218NE17	Still Apricot & Orange Spring Water	Boots Shapers	The Boots Company plc	500 ml	None declared	10 FEB 2005	L4197 SGA	05:24	15/09/04	E202, E211	Boots
218NE18	Sparkling Glucose Energy Drink	Explosade	Aldi Stores	1 litre	None declared	MAR 2005	L4207 SSFG	15:39	15/09/04	E211	Aldi

Sample code	Product as described	Brand	Manufacturer	Pack size	Country of origin	Best before/use by date	Batch code	Time code	Date purchased/sampled	Declared benzoate and/or sorbate	Place of purchase
218NE19	Premium High Juice Orange Squash	Spar	Spar (UK) Ltd	1 litre	None declared	FEB 2005	D7 4037	08:09	15/09/04	E202	Spar, Baxters
218NE20	High Juice Forest Fruits	Morrisons	Wm Morrison Supermarkets plc	1 litre	None declared	JUL 2005	L4 4202	21:15 x 1, 21:16 x 2	15/09/04	E202	Safeway
218NE21	Apple & Blackcurrant Squash - No Added Sugar	Sainsbury's Low Price	Sainsbury's Supermarkets Ltd	1 litre	UK	MAY 2005	4230 D4	05:36 x 1, 06:26 x 2	15/09/04	E211	Sainsbury's
218NE22	Blue Bolt	Sainsbury's	Sainsbury's Supermarkets Ltd	250 ml	UK	APR 2005	4204 L2B	09:03	15/09/04	E211	Sainsbury's
218NE23	Lemon Squash - No Added Sugar	Kwiksave	Kwik Save	1 litre	UK	APR 2005	4187 D4	08:14	15/09/04	E211	Kwik Save
218NE24	Sunshine Orange	Sunkist	Vimto Soft Drinks	330 ml	None declared	JUL 2005	L1A 4204	06:54 x 2, 07:00 x 1	15/09/04	E211	First Freeze
218NE25	Apple Squash - No Added Sugar	Somerfield	Somerfield Stores Ltd	1 litre	UK	APR 2005	4212 D4	22:08	15/09/04	E211	Somerfield
218NE26	Low-Calorie Raspberry / Orange Flavoured Soft Drink Concentrate With Sweeteners	1:11	Netto Foodstores Ltd	500 ml	Denmark	21 APR 2005	9107	None declared	18/09/04	E202, E211	Netto
218NE27	Lemonade	Panda Pops	Hall & Woodhouse Ltd	330 ml	None declared	FEB 2005	L4228 B	00:39	18/09/04	E211	Morrisons
218NE28	Sparkling Scottish Spring Water - Pear - Sugar Free	MacB	Sangs (Banff) Ltd	330 ml	Scotland	09 APR 2005	L1	15:49	18/09/04	E211	Instore
218NE29	Diet Cola	Marks & Spencer	Marks and Spencer plc	500 ml	UK	02 DEC 2004	DU 18 11 04A	None declared	18/09/04	E211	Marks & Spencer
218NE30	Orange	Fanta Light	Coca-Cola Enterprises Ltd	500 ml	None declared	FEB 2005	A 250WA9	12:02	18/09/04	E202	Tesco Extra
218NE31	Fruit Twist: Blackcurrant Juice Drink- No Added Sugar	MacB	Sangs (Banff) Ltd	300 ml	Scotland	03 AUG 2005	L2	08:31	15/09/04	E202, E211	Wilkinson
218NE32	Smooth Fruit & Barley Summer Fruits	Robinsons	Robinsons Soft Drinks Ltd	1 litre	None declared	MAY 2005	N14 4140	10:56	18/09/04	E202	Marie's Mini-Market
218NE33	Apple & Blackcurrant - No Added Sugar	Robinsons Special R	Robinsons Soft Drinks Ltd	1 litre	None declared	JUN 2005	N14 4156	09:08	18/09/04	E202	Lifestyle Express
218NE34	Peppermint Cordial	Schweppes	Coca-Cola Enterprises Ltd	1 litre	GB	NOV 2004	A S 300SC8	20:54 x 1, 20:56 x 1, 20:57 x 1	18/09/04	E202, E211	Bargain Booze
218NE35	Indian Tonic Water	Lifestyle	Independent Food Services Ltd	1 litre	UK	MAY 2005	L4216 SSOG	15:33	18/09/04	E211	Bargain Booze
218NE36	Apple Splash - Low Sugar	Fanta	Coca-Cola Enterprises Ltd	330 ml	None declared	DEC 2004	B 164 MK2	00:27	18/09/04	E211	J E MacKenzie
218NE37	Dr Pepper	Dr Pepper	Coca-Cola Enterprises Ltd	500 ml	GB	NOV 2004	A 181WA9	13:16	18/09/04	E211	Blockbuster
218NE38	Fruit Crush Pineapple & Grapefruit	Lilt	Coca-Cola Enterprises Ltd	330 ml	None declared	DEC 2004	B 184WA2	03:45	18/09/04	E211	Pound Stretcher
218NE39	Red Kola	Barr	A G Barr plc	500 ml	None declared	APR 2005	C1 4196	18:46 x 1, 18:47 x 2	18/09/04	E211	Bacci, Booze 'n' Bullets
218NE40	Sprite	Sprite	Coca-Cola Enterprises Ltd	500 ml	None declared	FEB 2005	A 252WA9	12:53	18/09/04	E211	W H Smith
218NI01	Lemon & Lime Sparkling Flavoured Water Drink	Ballygowan	Ballygowan Limited	500 ml	None declared	08 JUN 2005	C L4252	0009 x 1, 0010 x 2	03/12/04	E211	Near Buy

Sample code	Product as described	Brand	Manufacturer	Pack size	Country of origin	Best before/use by date	Batch code	Time code	Date purchased/sampled	Declared benzoate and/or sorbate	Place of purchase
218NI02	Pineappleade	Vitazade	Vitazade Bottling Co	330 ml	None declared	27 SEP 2005	L4271	15:12 x 2, 15:13 x 1	03/12/04	E211	Near Buy
218NI03	Fruit Flavour Drink	Mr Freeze	Zed Candy	100 ml	Spain	24 APR 2005	L 290903	None declared	03/12/04	E202, E211	Near Buy
218NI04	Mi Juice Boost - Apple & Blackcurrant Burst - No Added Sugar	Mi Wadi	Cantrell & Cochrane (Belfast) Ltd	250 ml	None declared	28 FEB 2005	NB L4 244	09:06	03/12/04	E202, E211	Near Buy
218NI05	Rock Shandy	Club	Cantrell & Cochrane (Belfast) Ltd	500 ml	None declared	13 FEB 2005	D L4195	15:38	03/12/04	E211	Near Buy
218NI06	Energise Sport	Club	Cantrell & Cochrane (Ireland) Ltd	500 ml	None declared	30 APR 2005	NB L4 294	20:33	03/12/04	E202, E211	Near Buy
218NI07	Orange Flavoured Drinks With Sweeteners	Tom and Jerry	Calypso Soft Drinks Ltd	185 ml	None declared	MAY 2005	G, on bottom of cup: 10 x 1, 16 x 1, 18 x 1	None declared	03/12/04	E202	Woodsides Department Store
218NI08	Sparkling Mixed Flavour Soft Drink With Sugar and Sweetener	Porte Mo	Smak Beverages	250 ml	None declared	19 NOV 2005	L4 324	0915 x 1, 0916 x 2	03/12/04	E211	Woodsides Department Store
218NI09	Raspberryyade	Smak	Smak Beverages	250 ml	None declared	19 NOV 2005	L4 324	1219	03/12/04	E211	Woodsides Department Store
218NI10	Blackcurrant - No Added Sugar	Mi Wadi	Cantrell & Cochrane (Belfast) Ltd	1 litre	None declared	18 MAR 2005	D L4201	22:06 x 1, 22:07 x 2	03/12/04	E211	XL Stop and Shop
218NI11	Cola Drink	Vitazade	Vitazade Bottling Co	330 ml	None declared	12 OCT 2005	L4286	12:38	03/12/04	E211	XL Stop and Shop
218NI12	Blackberry - Flavoured Natural Mineral Water	Clearly Tipperary	Tipperary Natural Mineral Water Company	500 ml	Ireland	SEP 2005	02:09	12:46	03/12/04	E211	McGroggans
218NI13	Lime & Lemon Crush	Valley	Braid Soft Drinks	250 ml	None declared	18 NOV 2005	L4323	14:15 x 1, 14:16 x 2	03/12/04	E211	McGroggans
218NI14	Extra Special Iron Brew	Smak	Smak Beverages	250 ml	None declared	13 OCT 2005	L4287	08:42 x 1, 08:44 x 2	03/12/04	E211	McGroggans
218NI15	Cola	Sprint	Mulrines	250 ml	None declared	JUN 2005	MU L4 245	09:13 x 1, 11:31 x 1, 11:32 x 1	03/12/04	E211	McGroggans
218NI16	Berry Red	Focus bpm Energy	Coca-Cola Bottlers (Ulster) Ltd	380 ml	EU	FEB 2005	DB 1805L41609	None declared	03/12/04	E211	Centra
218NI17	Sprite Zero	Sprite Zero	Coca-Cola Bottlers (Ulster) Ltd	500 ml	None declared	FEB 2005	BL 1754L42909	None declared	03/12/04	E211	Centra
218NI18	Pineappleade	C & C	Cantrell & Cochrane (Belfast) Ltd	250 ml	None declared	31 MAR 2005	NB L4 271	23:42	03/12/04	E211	Centra
218NI19	Orange & Pineapple - No Added Sugar	Mi Wadi	Cantrell & Cochrane (Belfast) Ltd	1 litre	None declared	05 JUN 2005	D L4279 1604	None declared	03/12/04	E211	Centra
218NI20	Orange	TK	Cantrell & Cochrane (Belfast) Ltd	2 litres	None declared	02 JUN 2005	D L4246	20:21	03/12/04	E211	Centra
218NI21	Blackcurrant Juice Drink - No Added Sugar	Ribena Toothkind	GlaxoSmithKline	600 ml	None declared	JUN 2005	394E	04:45	03/12/04	E202	SuperValu
218NI22	Orange Squash - No Added Sugar	Jucee	Princes Soft Drinks Ltd	2 litres	UK	JUN 2005	D6 4254	14:11	03/12/04	E211	SuperValu

Sample code	Product as described	Brand	Manufacturer	Pack size	Country of origin	Best before/use by date	Batch code	Time code	Date purchased/sampled	Declared benzoate and/or sorbate	Place of purchase
218NI23	Cola	Country Spring	M & J Gleeson & Co	3 litres	None declared	JUN 2005	1744 0809	None declared	03/12/04	E211	SuperValu
218NI24	Peach with Ginseng - Flavoured Sparkling Pure Water Drink	Deep RiverRock	Coca-Cola Bottlers (Ulster) Ltd	500 ml	None declared	JUN 2005	BL 0413L41309	None declared	03/12/04	E211	Spar
218NI25	Stimulation Drink	Blue Bear	Buying International Group SPAR B.V.	250 ml	EU	MAR 2006	L2B 4249	06:39	03/12/04	E211	Spar
218NI26	Rapidz Sugar Free Summer Slipstream	Calypso	Calypso Soft Drinks Ltd	350 ml	None declared	MAR 2005	C 22304	16:55	03/12/04	E202	Spar
218NI27	Refresh Yourself	Boost Light	Boost Drinks Ltd	500 ml	UK	JAN 2005	2 4186	07:22 x 1, 07:25 x 1, 07:28 x 1	03/12/04	E211	Spar
218NI28	Irish Sparkling Orange	Finches	United Beverages Sales Ltd	500 ml	None declared	30 MAR 2005	L3 287	12:22	03/12/04	E211	Costcutter
218NI29	Pacific Island	Scope	The Gleeson Group	250 ml	None declared	JAN 2005	27:04	15:54	03/12/04	E211	Costcutter
218NI30	Orangeade - Sugar Free	Fun Factory	Nisa-Today's (Holdings) Ltd	330 ml	UK	MAY 2005	C 4223	23:27	03/12/04	E211	Costcutter
218NI31	Sparkling Glucose Drink	Pulsar Xtra Energy	The Silver Spring Mineral Water Company Ltd	1 litre	None declared	10 OCT 2005	SST L4289	15:33	03/12/04	E211	Vivo
218NI32	Cola Flavour Drink with Sweeteners - Sugar Free	Tip Top	Tip Top Soft Drinks Ltd	185 ml	None declared	SEP 2005	V, on bottom of cup.; 07 x 1, 15 x 1, 23 x 1	None declared	03/12/04	E202	Vivo
218SC01	Juice Drink - Apple - With Sugar and Sweeteners	Twist 'n' Squeeze	Princes Soft Drinks Ltd	200 ml	Austria	JUN 2005	0/1	None declared	14/10/04	E202	Williamwood Newsagent
218SC02	Juice Drink - Orange - With Sugar and Sweeteners	Twist 'n' Squeeze	Princes Soft Drinks Ltd	200 ml	Austria	JUN 2005	S/3	None declared	14/10/04	E202	Williamwood Newsagent
218SC03	Icy Lemon	Fanta	Coca-Cola Enterprises Ltd	500 ml	None declared	JAN 2005	A 234WA9	16:28	14/10/04	E211	Williamwood Newsagent
218SC04	Berry Apple	Oasis	Coca-Cola Enterprises Ltd	500 ml	GB	FEB 2005	A 235WAA	04:22 x 1, 04:23 x 2	14/10/04	E202, E211	Williamwood Newsagent
218SC05	Lemonade	Barr	A G Barr plc	330 ml	None declared	FEB 2006	4217	00:09 x 2, 00:10 x 1	14/10/04	E211	Williamwood Newsagent
218SC06	American Cream Soda	Barr	A G Barr plc	330 ml	None declared	MAR 2006	4246	08:24 x 1, 08:27 x 2	14/10/04	E211	Williamwood Newsagent
218SC07	Diet Irn-Bru	Barr	A G Barr plc	330 ml	None declared	AUG 2005	4215	11:40 x 2, 11:41 x 1	15/10/04	E211	Fenwick Road Post Office (Londis)
218SC08	Sundaze Apple	Barr	A G Barr plc	250 ml	None declared	JAN 2005	C1 4186	10:09	15/10/04	E202, E211	Fenwick Road Post Office (Londis)
218SC09	Fruit Shoot - Strawberry - No Added Sugar	Robinsons	Robinsons Soft Drinks Ltd	300 ml	None declared	MAY 2005	N8 42280045	None declared	15/10/04	E202, E211	Fenwick Road Post Office (Londis)

Sample code	Product as described	Brand	Manufacturer	Pack size	Country of origin	Best before/use by date	Batch code	Time code	Date purchased/sampled	Declared benzoate and/or sorbate	Place of purchase
218SC10	Orange Squash	Kia-Ora	Coca-Cola Enterprises Ltd	1 litre	GB	AUG 2005	A S 225SC8	01:04	15/10/04	E211	Fenwick Road Post Office (Londis)
218SC11	Orangeade	Meri Mate Orangeutang	The Crown Beverage Co. Ltd	330 ml	None declared	APR 2005	LN118	15:36	16/10/04	E211	The Toll Newsagents
218SC12	Cherryade	Meri Mate Cherry Chipmunk	The Crown Beverage Co. Ltd	330 ml	None declared	JUN 2005	LN176	12:58 x 1, 12:59 x 2	16/10/04	E211	The Toll Newsagents
218SC13	Bubblegum	Meri Mate Bubbly Bee	The Crown Beverage Co. Ltd	330 ml	None declared	MAR 2005	LN068	15:05	16/10/04	E211	The Toll Newsagents
218SC14	Sparkling Diet Lemonade	Morrisons	Wm Morrison Supermarkets plc	500 ml	None declared	JAN 2005	4211 K3A	05:46	16/10/04	E211	Safeway
218SC15	Apple	Tango	Britvic Soft Drinks Ltd	500 ml	None declared	MAR 2005	B3L 4252	02:36	16/10/04	E202	Safeway
218SC16	Citrus Fruits	Panda Still	Hall & Woodhouse Ltd	330 ml	None declared	DEC 2004	L4153 B	08:54 on one side, 08:53 on other side	16/10/04	E202, E211	Safeway
218SC17	Lemon & Lime Squash - No Added Sugar	Morrisons	Wm Morrison Supermarkets plc	1 litre	None declared	APR 2005	L4 4199	00:59 x 2, 01:00 x 1	16/10/04	E202	Safeway
218SC18	Orange Squash	Pataya	Lidl UK GmbH	1 litre	None declared	AUG 2005	C 4237	06:18	16/10/04	E202	Lidl
218SC19	Cloudy Lemonade	Freeway	Lidl UK GmbH	2 litres	None declared	MAY 2005	K40 4266	14:43 x 1, 14:48 x 2	16/10/04	E211	Lidl
218SC20	Premium Lemonade	Freeway	Lidl UK GmbH	2 litres	None declared	MAY 2005	K40 4235	15:05	16/10/04	E211	Lidl
218SC21	Peach Flavour Spring Water Drink - Sparkling	Superdrug	Superdrug Stores plc	500 ml	None declared	MAR 2005	L4234 B	18:42	17/10/04	E211	Superdrug
218SC22	Blackcurrant Squash - No Added Sugar	Asda	Asda Stores Limited	1 litre	UK	MAR 2005	4267 D4	06:37	17/10/04	E202	Asda
218SC23	Tonic Water	Marks & Spencer	Marks and Spencer plc	500 ml	Eire	30 DEC 2004	DU16/12/04 R	None declared	17/10/04	E202, E211	Marks & Spencer
218SC24	Mediterranean Lemon & Mexican Lime High Juice - 50% Fruit Juice	Marks & Spencer	Marks and Spencer plc	1 litre	UK	10 FEB 2005	DU 13/1/05 b	None declared	17/10/04	E202	Marks & Spencer
218SC25	Whole Orange Drink With Sweeteners - No Added Sugar	Co-op	Co-operative Group (CWS) Ltd	1 litre	UK	JUN 2005	4251 D4	14:16	17/10/04	E202	Co-op
218SC26	Grape & Passion Fruit High Juice	Sainsbury's	Sainsbury's Supermarkets Ltd	1 litre	UK	MAR 2005	D7 4160	06:22	18/10/04	E202	Sainsbury's
218SC27	Lemon & Lime Naturally Flavoured Sparkling Mineral Water	Purely Scottish	Purely Scottish Mineral Water Distributors Ltd	500 ml	Scotland	19 SEP 2005	004335	None declared	18/10/04	E211	Sainsbury's
218SC28	Lime Juice Cordial	Sainsbury's	Sainsbury's Supermarkets Ltd	1 litre	UK	MAY 2005	D6 4222	16:12 x 1, 16:14 x 2	18/10/04	E211	Sainsbury's
218SC29	Tropical Fruit Squash - No Added Sugar	Somerfield	Somerfield Stores Ltd	1 litre	UK	MAY 2005	4225 D4	12:37	18/10/04	E211	Somerfield
218SC30	Apple & Blackcurrant Juice Drink - No Added Sugar	Sunquen	Aldi Stores	1 litre	None declared	SEP 2005	L4 4252	00:39	18/10/04	E202	Aldi
218SW01	Dandelion and Burdock	Tesco	Tesco Stores Ltd	2 litres	UK	MAR 2005	3 4244	20:12	04/10/04	E211	Tesco
218SW02	Sparkling Diet Orange	Tesco	Tesco Stores Ltd	2 litres	UK	MAR 2005	3 4265	11:45	04/10/04	E202, E211	Tesco

Sample code	Product as described	Brand	Manufacturer	Pack size	Country of origin	Best before/use by date	Batch code	Time code	Date purchased/sampled	Declared benzoate and/or sorbate	Place of purchase
218SW03	Cherryade - Sugar Free	Tesco	Tesco Stores Ltd	2 litres	UK	MAR 2005	4253 C1	05:44	04/10/04	E211	Tesco
218SW04	Premium High Juice Apple, Cherry & Raspberry	Robinsons	Robinsons Soft Drinks Ltd	1 litre	None declared	SEP 2005	N14 4267	22:41	04/10/04	E202	Tesco
218SW05	Apple Squash - No Added Sugar	Tesco	Tesco Stores Ltd	1 litre	UK	JUN 2005	4255 D4	10:20	04/10/04	E211	Tesco
218SW06	Apple & Blackcurrant Squash - No Added Sugar	Tesco	Tesco Stores Ltd	1 litre	UK	JUN 2005	4272 D4	13:29	04/10/04	E202, E211	Tesco
218SW07	High Juice Orange Squash	Tesco	Tesco Stores Ltd	1 litre	UK	SEP 2005	D7 4251	07:40	04/10/04	E211	Tesco
218SW08	High Juice Apple Squash	Tesco	Tesco Stores Ltd	1 litre	UK	AUG 2005	D7 4241	08:46	04/10/04	E211	Tesco
218SW09	Low Calorie Lemon Drink	Tesco Value	Tesco Stores Ltd	1 litre	UK	JUN 2005	4261 D4	22:38	04/10/04	E211	Tesco
218SW10	Old Jamaica Ginger Beer	DG	W.T. Foods Ltd	500 ml	None declared	MAY 2005	4239 K3A	07:58	04/10/04	E211	Tesco
218SW11	Summer Fruits	Oasis	Coca-Cola Enterprises Ltd	500 ml	GB	MAR 2005	A 269WAA	01:19	04/10/04	E202, E211	Tesco
218SW12	Lime Fizz - No Added Sugar	Sainsbury's	Sainsbury's Supermarkets Ltd	2 litres	UK	MAY 2005	K4B 4238	18:58	04/10/04	E211	Sainsbury's
218SW13	Orange, Mango & Peach Crush - No Added Sugar	Sainsbury's	Sainsbury's Supermarkets Ltd	2 litres	UK	FEB 2005	L4232 SSTC	07:03	04/10/04	E202, E211	Sainsbury's
218SW14	Dry Ginger Ale	Sainsbury's	Sainsbury's Supermarkets Ltd	1 litre	UK	MAY 2005	4241 K3B	17:54	04/10/04	E211	Sainsbury's
218SW15	Blackcurrant Squash - No Added Sugar	Spar	Spar (UK) Ltd	1 litre	None declared	MAY 2005	D6 4226	06:55	04/10/04	E211	Spar
218SW16	Summer Fruits Squash - No Added Sugar	Spar	Spar (UK) Ltd	1 litre	None declared	MAY 2005	4230 D4	13:23	04/10/04	E202	Spar
218SW17	Zesty Berry	Fanta	Coca-Cola Enterprises Ltd	500 ml	None declared	NOV 2004	A 182SC5	05:07	04/10/04	E211	Aopha Retail Trading
218SW18	Irn-Bru	Barr	A G Barr plc	500 ml	None declared	MAY 2005	C1 4236	04:57	04/10/04	E211	Select Service Partners
218SW19	Orange Body Fuel	Lucozade Sport	GlaxoSmithKline	500 ml	None declared	APR 2005	304D C	06:02	04/10/04	E202, E211	Co-op
218SW20	Fruit Shoot Orange & Peach - No Added Sugar	Robinsons	Robinsons Soft Drinks Ltd	200 ml	None declared	JAN 2005	N6 40952256	None declared	04/10/04	E202, E211	Co-op
218SW21	Fruit Shoot Blackcurrant & Apple - No Added Sugar	Robinsons	Robinsons Soft Drinks Ltd	200 ml	None declared	MAY 2005	N5 42160514	None declared	04/10/04	E202, E211	Co-op
218SW22	Diet Pepsi	Pepsi	Britvic Soft Drinks Ltd	330 ml	None declared	DEC 2004	R5L 4166	16:42	05/10/04	E211	The Crusty Cob (Creations) Ltd
218SW24	Fruit Twist	Fanta	Coca-Cola Enterprises Ltd	330 ml	None declared	JUN 2005	B 163 MK2	11:54	05/10/04	E211	The Paper Shop
218SW25	Orange	Fanta	Coca-Cola Enterprises Ltd	330 ml	None declared	AUG 2005	B 217WA2	08:06	05/10/04	E211	The Paper Shop
218SW27	Summer Berry	Cwella	Frujet Beverages Ltd	475 ml	None declared	JAN 2005	4009	13:33	05/10/04	E202, E211	Forbuoys
218SW28	Orange & Passion Fruit	Cwella	Frujet Beverages Ltd	475 ml	None declared	JUL 2005	4188	02:00	05/10/04	E202, E211	Forbuoys
218SW30	Lemonade-Sugar Free	Tuck Shop	Tuck Shop	330 ml	None declared	APR 2005	4185 K3A	15:17	05/10/04	E211	Wessex Stores

Sample code	Product as described	Brand	Manufacturer	Pack size	Country of origin	Best before/use by date	Batch code	Time code	Date purchased/sampled	Declared benzoate and/or sorbate	Place of purchase
218SW31	Sparkling Vimto	Vimto	Vimto Soft Drinks	330 ml	None declared	26 NOV 2005	L1A 4237	03:14	05/10/04	E202, E211	Wessex Stores
218SW32	Sparkling Vimto Light	Vimto	Vimto Soft Drinks	330 ml	None declared	AUG 2005	LIB 4241	14:40	05/10/04	E202, E211	Wessex Stores
218SW34	Diet Sunshine Orange	Sunkist	Vimto Soft Drinks	330 ml	None declared	APR 2005	L1A 4195	08:03	05/10/04	E202, E211	Wessex Stores
218SW35	Mixed Berry Body Fuel	Lucozade Sport	GlaxoSmithKline	500 ml	None declared	APR 2005	314A C	07:19	05/10/04	E202, E211	One-Stop Convenience Stores
218SW36	Sparkling Cherry	Little Smashers	The Silver Spring Mineral Water Company Ltd	330 ml	None declared	07 APR 2005	SS L4189	23:39	05/10/04	E211	One-Stop Convenience Stores
218SW37	Pink Grapefruit Smooth Fruit & Barley	Robinsons	Robinsons Soft Drinks Ltd	1 litre	None declared	AUG 2005	N11 4230	12:10	05/10/04	E202	One-Stop Convenience Stores
218SW38	Apple & Blackcurrant Fruit Squash	Robinsons	Robinsons Soft Drinks Ltd	1 litre	None declared	AUG 2005	N14 4237	10:10	05/10/04	E202, E211	One-Stop Convenience Stores
218SW39	Blackcurrant Juice Drink	Ribena Original	GlaxoSmithKline	600 ml	None declared	JUL 2005	304C	18:16	05/10/04	E211	One-Stop Convenience Stores
218SW40	Apple and Blackcurrant Squash	Pataya	Lidl UK GmbH	1 litre	None declared	AUG 2005	C 4214	17:57	05/10/04	E202	Lidl
218WA01	Cherryade - No Added Sugar	Somerfield	Somerfield Stores Ltd	250 ml	UK	FEB 2005	K4A 4220	20:37	24/10/04	E211	Somerfield
218WA02	Pink Grapefruit and Barley Drink - No Added Sugar	Somerfield	Somerfield Stores Ltd	1 litre	UK	APR 2005	D7 4198	15:46	24/10/04	E202, E211	Somerfield
218WA03	Red Rooster Stimulation Drink	Cott Beverages	Cott Beverages Ltd	250 ml	None declared	MAR 2006	L2B 4267	05:52	24/10/04	E211	Somerfield
218WA04	Slightly Sparkling Spring Water Drink Fused with Grapefruit	Somerfield	Somerfield Stores Ltd	1 litre	UK	JAN 2005	4177 K3B	00:19	24/10/04	E211	Somerfield
218WA05	Limeade - Sugar Free	Tesco	Tesco Stores Ltd	2 litre	UK	APR 2005	4283 C1	15:25	24/10/04	E211	Tesco Extra
218WA06	Whole Lemon Squash - No Added Sugar	Tesco	Tesco Stores Ltd	1 litre	UK	JUL 2005	4282 D4	17:39	24/10/04	E211	Tesco Extra
218WA07	Summerfruit Squash - No Added Sugar	Tesco	Tesco Stores Ltd	1 litre	UK	JUL 2005	4276 D4	21:36	24/10/04	E202	Tesco Extra
218WA08	Apple and Elderflower Juice Drink	Tesco	Tesco Stores Ltd	1 litre	UK	MAR 2005	N 4263 M	09:30	24/10/04	E211	Tesco Extra
218WA09	Orangeade - No Added Sugar	Carnival	Cott Beverages Ltd	2 litre	None declared	APR 2005	4200 0804 K4B	None declared	24/10/04	E211	Iceland
218WA10	Low Calorie Lemonade	Iceland Great Value	Iceland Foods plc	2 litre	None declared	JUN 2005	898 4258	07:32	24/10/04	E211	Iceland
218WA11	Cherryade	Panda Pops	Hall & Woodhouse Ltd	330 ml	None declared	APR 2005	L4261 B	21:10	27/10/04	E211	Clive Road Stores
218WA12	Sparkling Strawberry & Kiwi Flavoured Spring Water	Lifestyle	Independent Food Services Ltd	500 ml	None declared	MAR 2005	SSQ L4201	15:29	27/10/04	E211	Clive Road Stores

Sample code	Product as described	Brand	Manufacturer	Pack size	Country of origin	Best before/use by date	Batch code	Time code	Date purchased/sampled	Declared benzoate and/or sorbate	Place of purchase
218WA13	Still Strawberry	Smashers	The Silver Spring Mineral Water Company Ltd	500 ml	None declared	18 JAN 2005	SSF L4108	14:43	27/10/04	E211	Post Office and Stores
218WA14	Passion Sparkling Exotic Fruit Drink	Rubicon	Rubicon Products Ltd	500 ml	None declared	APR 2005	4188 M1	05:23	27/10/04	E202, E211	Post Office and Stores
218WA15	Lemonade	Schweppes	Coca-Cola Enterprises Ltd	330 ml	GB	APR 2005	B 186WA2	08:43	27/10/04	E211	United News
218WA16	Lemon Squash - No Added Sugar	Asda	Asda Stores Limited	1 litre	UK	APR 2005	4278 D4	05:18	28/10/04	E211	Asda
218WA17	Blue Charge - High Impact Stimulation Drink	Asda	Asda Stores Limited	250 ml	UK	SEP 2005	L2B 4265	03:45	28/10/04	E211	Asda
218WA18	Blackcurrant Squash High Juice	Hyberry	Aldi Stores	1 litre	None declared	AUG 2005	L4 4222	10:05	29/10/04	E211	Aldi Stores Ltd
218WA19	Whole Orange Drink - No Added Sugar	Sunquen	Aldi Stores	1 litre	None declared	SEP 2005	L4 4267	02:09	29/10/04	E202, E211	Aldi Stores Ltd
218WA20	Orange Flavour Still Soft Drink	Squeeze Pops	Norbev	330 ml	None declared	FEB 2005	NB L4 212	09:17	29/10/04	E211	Farmfoods
218WA21	Tropical Splash	Sunkist	Vimto Soft Drinks	2 litre	None declared	MAY 2005	K4B 4231	20:15	29/10/04	E202, E211	Farmfoods
218WA22	Fizzy Lemonade	Best-In	Bestway	330 ml	None declared	JUL 2005	LN182	15:33	30/10/04	E211	M.S. News
218WA23	Apple & Blackcurrant Squash	Jucee	Princes Soft Drinks Ltd	2 litre	UK	APR 2005	4202 D1	11:30	29/10/04	E211	Omar's Discount Store
218WA24	Blackcurrant Juice Drink	Ribena Light	GlaxoSmithKline	600 ml	None declared	SEP 2005	394B	23:54	29/10/04	E202	Omar's Discount Store
218WA25	Orange - No Added Sugar	Robinsons Special R	Robinsons Soft Drinks Ltd	1 litre	None declared	AUG 2005	N14 4243	20:09	29/10/04	E202	Omar's Discount Store
218WA26	Apple	Robinsons Original	Robinsons Soft Drinks Ltd	1 litre	None declared	DEC 2004	N12 3335	14:07	29/10/04	E202	Omar's Discount Store
218WA27	Orange & Passion Fruit Juice Drink	Britvic J2O	Britvic Soft Drinks Ltd	275 ml	None declared	JUL 2005	ZL3 4202 0203	None declared	29/10/04	E202	Omar's Discount Store
218WA28	Dandelion & Burdock	Ben Shaws	Benjamin Shaw & Sons Ltd	330 ml	UK	MAR 2006	L1B 4262	02:31	30/10/04	E211	M.S. News
218WA29	Raspberry - Sugar Free	Big Time	Big Time Soft Drinks Ltd	200 ml	None declared	FEB 2005	7 bottom, 15 top x 1, 14 bottom, 8 top x 1, 1 bottom, 10 top x 1	None declared	30/10/04	E202, E211	M.S. News
218WA30	Fizzy Bubblegum	Best-In	Bestway	330 ml	None declared	JUN 2005	LN 154	16:26	30/10/04	E211	M.S. News

Table 2 – Results of analysis for benzoic and sorbic acids (mg/l) for samples as purchased (not as prepared for consumption)

Notes

= Not analysed, < 5 = less than reporting limit of 5 mg/l.

Results in italics are for concentrated products such as squashes or other dilutables (also marked with (C) under averaged results column). All the results are reported 'as purchased' e.g. the results have not been altered to take into account the recommended dilution factors. The limits specified in the Miscellaneous Food Additives Regulations refer to foods ready for consumption as prepared following manufacturers' instructions.

Sample Code	Product as described	Brand	Recommended dilution Concentrate : Water	Date of analysis	RSSL analysis results				Somerset Scientific Service analysis results		Averaged results	
					Sorbic acid mg/l	Benzoic acid mg/l	Sorbic acid mg/l	Benzoic acid mg/l	Sorbic acid mg/l	Benzoic acid mg/l	Sorbic acid mg/l	Benzoic acid mg/l
218EA01	Orange	Lucozade Energy	-	22/11/04	< 5	138	-	-	-	-	< 5	138
218EA02	Diet Coke	Coca-Cola	-	22/11/04	< 5	144	< 5	151	< 5	140	< 5	145
218EA03	Original Bitter Lemon	Schweppes	-	22/11/04	< 5	134	-	-	-	-	< 5	134
218EA04	Fruit Fling	Tango	-	22/11/04	181	< 5	-	-	-	-	181	< 5
218EA05	Citrus Clear	Lucozade Energy	-	22/11/04	< 5	134	-	-	-	-	< 5	134
218EA06	Sparkling Cola	Little Smashers	-	22/11/04	< 5	116	-	-	-	-	< 5	116
218EA07	Fruit Spring Apple & Cranberry	Robinsons	-	22/11/04	274	< 5	-	-	-	-	274	< 5
218EA08	Lemonade	Happy Shopper	-	22/11/04	< 5	115	-	-	-	-	< 5	115
218EA09	Whole Orange Drink	Mace	1:4	22/11/04	< 5	91	-	-	-	-	< 5 (C)	91 (C)
218EA11	Orange	Tango	-	22/11/04	155	7	153	7	153	9	154	8
218EA12	Energy - Refresh Yourself	Boost	-	22/11/04	< 5	137	-	-	-	-	< 5	137
218EA13	Lemonade - No Added Sugar	Mace Value Pack	-	22/11/04	< 5	118	-	-	-	-	< 5	118
218EA14	Apple & Blackcurrant Squash - No Added Sugar	Waitrose	1:4	22/11/04	825	< 5	-	-	-	-	825 (C)	< 5 (C)
218EA15	Orange Squash - No Added Sugar	Waitrose	1:4	22/11/04	774	< 5	-	-	-	-	774 (C)	< 5 (C)
218EA16	Bitter Lemon	Waitrose	-	22/11/04	< 5	131	-	-	-	-	< 5	131
218EA17	Blackcurrant - No Added Sugar	Panda Still	-	22/11/04	222	116	-	-	-	-	222	116
218EA18	Zesty Orange	Slayker	-	22/11/04	186	153	184	159	182	151	184	154
218EA19	Wolfberry & Guarana	Indigo	-	22/11/04	206	134	-	-	-	-	206	134
218EA20	Apple & Blackcurrant Squash	Budgens	1:4	22/11/04	5	286	5	300	5	289	5 (C)	292 (C)
218EA21	Whole Orange Squash - No Added Sugar	Budgens	1:4	22/11/04	829	< 5	-	-	-	-	829 (C)	< 5 (C)
218EA22	All American Taste Diet Cola	Budgens	-	22/11/04	< 5	110	-	-	-	-	< 5	110
218EA23	Kick Stimulation Drink	Tesco	-	22/11/04	< 5	141	-	-	-	-	< 5	141
218EA24	Original Florida Style	Sunny Delight	-	22/11/04	192	< 5	-	-	-	-	192	< 5

Sample Code	Product as described	Brand	Recommended dilution Concentrate : Water	Date of analysis	RSSL analysis results				Somerset Scientific Service analysis results		Averaged results	
					Sorbic acid mg/l	Benzoic acid mg/l	Sorbic acid mg/l	Benzoic acid mg/l	Sorbic acid mg/l	Benzoic acid mg/l	Sorbic acid mg/l	Benzoic acid mg/l
218EA25	Peach Slightly Sparkling Spring Water Drink	Tesco	-	22/11/04	100	< 5	-	-	-	-	100	< 5
218EA26	Whole Orange Squash - No Added Sugar	Tesco	1:4	22/11/04	773	< 5	749	10	792	8	771 (C)	8 (C)
218EA27	Citrus Punch	Oasis	-	22/11/04	150	130	-	-	-	-	150	130
218EA28	Still Citrus Sports Rehydration Drink	Boots Shapers	-	22/11/04	122	117	-	-	-	-	122	117
218EA29	Still Apple Spring Water	Boots Shapers	-	22/11/04	122	117	-	-	-	-	122	117
218EA30	Ginseng with Plum Sparkling Flavoured Natural Spring Water	Britannia	-	22/11/04	< 5	123	-	-	-	-	< 5	123
218EA31	Hemp with Grapefruit Sparkling Flavoured Natural Spring Water	Britannia	-	22/11/04	< 5	126	< 5	132	< 5	126	< 5	128
218EA32	Lemon & Lime Flavour Spring Water Drink	Superdrug	-	22/11/04	< 5	137	-	-	-	-	< 5	137
218EA33	Tropical	Rio Light	-	22/11/04	145	123	-	-	-	-	145	123
218EA34	Apple & Blackcurrant Juice Drink	Iceland Kids Crew	-	22/11/04	236	< 5	-	-	-	-	236	< 5
218EA35	Sparkling Strawberry & Kiwi Natural Flavour Spring Water	Hadrian Clear	-	22/11/04	118	< 5	-	-	-	-	118	< 5
218EA36	Whole Orange Drink	Happy Shopper	1:4	22/11/04	< 5	298	-	-	-	-	< 5 (C)	298 (C)
218EA37	Orange Drink	Morrisons Bettabuy	1:4	22/11/04	< 5	620	-	-	-	-	< 5 (C)	620 (C)
218EA38	Orange Squash - No Added Sugar	Morrisons	1:4	22/11/04	993	5	-	-	-	-	993 (C)	5 (C)
218EA39	Original Blackcurrant Juice Drink	Morrisons	1:4	22/11/04	746	< 5	-	-	-	-	746 (C)	< 5 (C)
218EA40	Apple Squash - No Added Sugar	Morrisons	1:4	22/11/04	933	< 5	-	-	-	-	933 (C)	< 5 (C)
218LO01	Original Sarsaparilla	Baldwin's	1:4	16/02/05	< 5	677	-	-	-	-	< 5 (C)	677 (C)
218LO02	Sparkling Cherry Cola	Tesco	-	16/02/05	< 5	127	-	-	-	-	< 5	127
218LO03	Diet Cola	Virgin	-	16/02/05	< 5	141	-	-	-	-	< 5	141
218LO04	Sugar Free Cola	Tesco Value	-	16/02/05	< 5	84	-	-	-	-	< 5	84
218LO05	Cranberry and Grapefruit Mix It	Tesco	-	16/02/05	143	132	-	-	-	-	143	132
218LO06	Low Calorie Apple & Blackcurrant Drink	Tesco Value	1:4	16/02/05	< 5	395	-	-	-	-	< 5 (C)	395 (C)
218LO07	Low Calorie Indian Tonic Water With a Twist of Lime	Tesco	-	16/02/05	< 5	128	-	-	-	-	< 5	128
218LO08	Passion Fruit & Mango Cordial	Belvoir	1:7	16/02/05	380	< 5	-	-	-	-	380 (C)	< 5 (C)
218LO09	Fruit & Barley Apple & Blackcurrant Squash - No Added Sugar	Sainsbury's	1:4	16/02/05	873	< 5	-	-	-	-	873 (C)	< 5 (C)

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218LO10	Cola	Sainsbury's Low Price	-	16/02/05	< 5	109	-	-	-	-	< 5	109
218LO11	Diet Bitter Lemon	Sainsbury's	-	16/02/05	< 5	145	< 5	148	< 5	147	< 5	147
218LO12	Grapefruit Flavoured Spring Water Sparkling Drink	Sainsbury's	-	16/02/05	< 5	137	-	-	-	-	< 5	137
218LO13	Root Beer	Sainsbury's	-	16/02/05	< 5	132	-	-	-	-	< 5	132
218LO14	Mixed Fruits Squash - No Added Sugar	Sainsbury's	1:4	16/02/05	< 5	359	-	-	-	-	< 5 (C)	359 (C)
218LO15	Grape 'n' Apple - 10% Fruit Juice - No Added Sugar	Panda Fruiti Pops	-	25/02/05	206	127	-	-	-	-	206	127
218LO16	Diet Coke Caffeine Free	Coke	-	25/02/05	< 5	140	-	-	-	-	< 5	140
218LO17	Banana	Chubby	-	16/02/05	< 5	124	-	-	-	-	< 5	124
218LO18	Apple & Strawberry Squash	Jucee	1:4	23/03/05	< 5	672	-	-	-	-	< 5 (C)	672 (C)
218LO19	Jamaica Strawberry Flavour Cane Syrup	Ping's	None declared	16/02/05	< 5	108	-	-	-	-	< 5 (C)	108 (C)
218LO20	Sparkling Pear Drink	Whiteway's Peardrax	-	16/02/05	< 5	134	-	-	-	-	< 5	134
218LO21	Fruit Salad - 10% Fruit Juice - No Added Sugar	Panda Fruiti Pops	-	16/02/05	195	124	-	-	-	-	195	124
218LO22	Sparkling Cherry Cherryade	Silver Spring	-	16/02/05	< 5	131	-	-	-	-	< 5	131
218LO23	Sparkling Cola	Silver Spring	-	16/02/05	< 5	138	-	-	-	-	< 5	138
218LO24	Cola	Qibla	-	16/02/05	35	123	-	-	-	-	35	123
218LO25	Diet Coke With Lime	Coke	-	25/02/05	< 5	146	< 5	144	< 5	140	< 5	143
218LO26	Orange and Tangerine Still Mineral Water Drink Sugar Free	Purely Scottish Fruit 'n' Vits	-	23/03/05	< 5	142	< 5	146	< 5	145	< 5	144
218LO27	Premium Lemonade	R Whites	-	16/02/05	< 5	128	-	-	-	-	< 5	128
218LO28	Orange - Orange Flavored Drink	Uludag	-	16/02/05	173	122	-	-	-	-	173	122
218LO29	Aqua Orange and Peach Detox	Tesco	-	23/03/05	< 5	108	-	-	-	-	< 5	108
218LO30	Blackcurrant Flavoured Still Drink	Slayker	-	25/02/05	211	158	209	159	198	153	206	157
218LO31	Energy	VK	-	25/02/05	< 5	145	< 5	144	< 5	143	< 5	144
218LO32	Diet Coke With Lemon	Coke	-	25/02/05	< 5	143	< 5	146	< 5	141	< 5	143
218LO33	Mulberry Syrup	Al Wadi Al Akhdar	None declared	25/02/05	< 5	325	-	-	-	-	< 5 (C)	325 (C)
218LO34	Orange, Lemon & Pineapple Squash	Sainsbury's	1:4	25/02/05	< 5	652	-	-	-	-	< 5 (C)	652 (C)
218LO35	Orange High Juice - No Added Sugar	Sainsbury's	1:4	25/02/05	344	< 5	-	-	-	-	344 (C)	< 5 (C)

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218LO36	Orange Squash - No Added Sugar	Sainsbury's Low Price	1:4	25/02/05	< 5	343	-	-	-	-	< 5 (C)	343 (C)
218LO37	Jamaican Cherry Fruit Flavour Syrup	Dunn's River	Dilute to taste	25/02/05	< 5	630	-	-	-	-	< 5 (C)	630 (C)
218LO38	Mango Fruit Drink - Natural	Original	-	25/02/05	87	106	86	106	86	105	86	106
218LO39	Twist of Forest Fruits - Sparkling Spring Water Drink	Prince's Gate	-	23/03/05	128	< 5	-	-	-	-	128	< 5
218LO40	Blackcurrant Flavour Still Water Drink	Danone Activ	-	23/03/05	< 5	142	-	-	-	-	< 5	142
218LO41	Strawberry and Lemon Drink (Fraise-Citron)	boowl	-	23/03/05	138	125	-	-	-	-	138	125
218LO42	Regenerate - Exotic Fruits Flavour + B vitamins + ginkgo + minerals	vitSmart	-	23/03/05	79	138	-	-	-	-	79	138
218LO43	Vimto - No Added Sugar	Vimto	1:5	23/03/05	582	253	-	-	-	-	582 (C)	253 (C)
218LO44	Sunny Delight with Calcium - No Added Sugar	Sunny Delight	-	23/03/05	218	< 5	-	-	-	-	218	< 5
218LO45	Apple and Blackcurrant Squash High Juice - No Added Sugar	Tesco	1:4	23/03/05	< 5	640	< 5	653	< 5	627	< 5 (C)	640 (C)
218LO46	Lime Juice Cordial	Tesco	1:4	23/03/05	< 5	255	-	-	-	-	< 5 (C)	255 (C)
218LO47	Vimto - Original	Vimto	1:5	23/03/05	371	641	-	-	-	-	371 (C)	641 (C)
218LO48	Orange Classic Barley Water	Robinsons	1:4	23/03/05	497	< 5	-	-	-	-	497 (C)	< 5 (C)
218LO49	Ginger Cordial	Belvoir	1:10	23/03/05	814	21	957	17	879	20	883 (C)	19 (C)
218LO50	Calorie Controller - Pink Grapefruit Flavor + C Vitamin	vitSmart	-	23/03/05	74	138	-	-	-	-	74	138
218LO51	Orange & Mango - No Added Sugar	Robinsons Special R	1:4	23/03/05	942	< 5	-	-	-	-	942 (C)	< 5 (C)
218LO52	Aqua Blackberry Boost	Tesco	-	23/03/05	< 5	112	-	-	-	-	< 5	112
218MI01	Orangina With Real Orange Pieces	Orangina	-	18/01/05	< 5	142	-	-	-	-	< 5	142
218MI02	Red Hot Orange	T & T	-	18/01/05	148	137	-	-	-	-	148	137
218MI03	Cola	Asda Smartprice	-	18/01/05	< 5	120	-	-	-	-	< 5	120
218MI04	Cranberry & Raspberry Juice Drink	Ocean Spray	1:4	18/01/05	498	19	549	19	532	16	526 (C)	18 (C)
218MI05	Strawberry and Blackberry	Hedgerow	-	18/01/05	< 5	148	< 5	151	< 5	150	< 5	150
218MI06	High Juice Fruit 50% Juice	Vimto	1:4	18/01/05	412	608	-	-	-	-	412 (C)	608 (C)
218MI07	Berry Blast - Five Fruit Squash With No Added Sugar	5 Alive	1:4	18/01/05	472	< 5	-	-	-	-	472 (C)	< 5 (C)
218MI08	Fiery Ginger Beer	Idris	-	18/01/05	174	< 5	-	-	-	-	174	< 5
218MI09	Low Calorie Bitter Lemon	Asda	-	18/01/05	< 5	115	-	-	-	-	< 5	115

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218MI10	Orange and Pineapple In A Crush	Asda	-	18/01/05	204	133	-	-	-	-	204	133
218MI11	Spiced Winter Berries Cordial	Belvoir	1:7	18/01/05	403	< 5	-	-	-	-	403 (C)	< 5 (C)
218MI12	Fruity Apple & Strawberry Hi Juice - No Added Sugar	Asda	1:4	18/01/05	485	< 5	-	-	-	-	485 (C)	< 5 (C)
218MI13	Blackcurrant Juice Drink - No Added Sugar	C-Vit	1:4	18/01/05	274	239	-	-	-	-	274 (C)	239 (C)
218MI14	High Performance - Health and Vitality for Men	Wellman	-	18/01/05	< 5	137	-	-	-	-	< 5	137
218MI15	Isotonic Orange Flavour Sports Drink	Asda	-	18/01/05	93	140	-	-	-	-	93	140
218MI16	Clear Grapefruit	Morrisons	-	18/01/05	< 5	144	< 5	140	< 5	134	< 5	139
218MI17	Doctor Pop	Morrisons	-	18/01/05	< 5	135	-	-	-	-	< 5	135
218MI18	Original Cranberry Juice Drink	Ocean Spray	1:4	18/01/05	528	44	547	45	540	39	538 (C)	43 (C)
218MI19	Ginger Beer	Morrisons	-	18/01/05	< 5	122	-	-	-	-	< 5	122
218MI20	Peach Water H2O	The Simpsons	-	18/01/05	< 5	140	-	-	-	-	< 5	140
218MI21	Sparkling Grapefruit Spring Water Drink - No Added Sugar	Morrisons	-	18/01/05	< 5	136	-	-	-	-	< 5	136
218MI22	Whole Orange Squash - No Added Sugar	Wells	1:4	18/01/05	< 5	307	-	-	-	-	< 5 (C)	307 (C)
218MI23	Pineapple and Grapefruit Concentrate	Sodastream Duo	1:23	19/01/05	< 5	1383	-	-	-	-	< 5 (C)	1383 (C)
218MI24	Diet American Ginger Ale	Morrisons	-	19/01/05	< 5	150	< 5	149	< 5	149	< 5	149
218MI25	Pear and Blackcurrant Squash - No Added Sugar	Kia.Ora	1:4	19/01/05	541	8	551	7	549	7	547 (C)	7 (C)
218MI26	Orange Squash - No Added Sugar	Kia.Ora	1:4	19/01/05	536	33	-	-	-	-	536 (C)	33 (C)
218MI27	Sparkling Spring Water With Apple & Cinnamon Flavour - Sugar Free	Strathmore	-	19/01/05	< 5	105	-	-	-	-	< 5	105
218MI28	Grape Flavour Soft Drink	Bigga	-	19/01/05	< 5	131	-	-	-	-	< 5	131
218MI29	Diet Cola	Premier	-	19/01/05	< 5	113	-	-	-	-	< 5	113
218MI30	Grape Soda	DG Jamaica	-	19/01/05	< 5	139	-	-	-	-	< 5	139
218MI31	Tonic Water With a Twist of Lemon	Nisa	-	19/01/05	< 5	126	-	-	-	-	< 5	126
218MI32	RoohAfza - Summer Drink of the East	Hamdard	1:7	19/01/05	< 5	231	-	-	-	-	< 5 (C)	231 (C)
218MI33	Sparkling Cola	Prize	-	19/01/05	< 5	134	-	-	-	-	< 5	134
218MI34	Sparkling Cream Soda	Prize	-	19/01/05	< 5	135	-	-	-	-	< 5	135
218MI35	Royal Indian Tonic Water	Carters	-	19/01/05	< 5	123	-	-	-	-	< 5	123
218MI36	Mango	Rubicon	-	19/01/05	< 5	141	-	-	-	-	< 5	141

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218MI37	Still Aqua Splash Orange & Mandarin	Radnor Hills	-	19/01/05	68	119	68	119	67	119	68	119
218MI38	Energy Original	Lucozade	-	19/01/05	< 5	140	-	-	-	-	< 5	140
218MI39	Black Cherry	Boylan Bottleworks	-	19/01/05	< 5	230	< 5	227	< 5	229	< 5	229
218MI40	Still Cranberry & Blueberry Flavoured Spring Water	Superdrug		19/01/05	170	141	-	-	-	-	170	141
218MI41	Pepsi Twist	Pepsi	-	19/01/05	< 5	143	< 5	142	< 5	143	< 5	143
218MI42	Pepsi Max	Pepsi	-	19/01/05	< 5	144	< 5	144	< 5	145	< 5	144
218NE01	Lime 'N' Lemon - Sugar Free	Big Time	-	08/10/04	128	24	-	-	-	-	128	24
218NE02	Cola - Sugar Free	Cool Characters	-	08/10/04	< 5	122	-	-	-	-	< 5	122
218NE03	Apple & Raspberry Juice Drink	Twist 'n' Squeeze	-	08/10/04	187	9	184	8	181	10	184	9
218NE04	Limeade - Sugar Free	Tuck Shop	-	08/10/04	< 5	124	-	-	-	-	< 5	124
218NE05	Itzred	Tizer	-	07/10/04	< 5	129	-	-	-	-	< 5	129
218NE06	Peach Flavour Spring Water Drink - No Added Sugar	Asda	-	08/10/04	< 5	139	< 5	139	< 5	139	< 5	139
218NE07	High Juice Orange	Orchard Breeze	1:4	08/10/04	731	< 5	-	-	-	-	731 (C)	< 5 (C)
218NE08	Mixed Fruit Squash - No Added Sugar	Tesco	1:4	08/10/04	< 5	367	-	-	-	-	< 5 (C)	367 (C)
218NE09	White Grape & Blackberry	Tesco	-	08/10/04	126	7	124	< 5	127	6	126	6
218NE10	Everyday Low Calorie Orange Drink	Co-op	1:4	08/10/04	< 5	252	-	-	-	-	< 5 (C)	252 (C)
218NE11	V33 Bubbleee	Villa	-	08/10/04	< 5	124	-	-	-	-	< 5	124
218NE12	Raspberry	Panda Still	-	08/10/04	208	127	201	126	201	127	203	127
218NE14	Lemon & Lime - Sugar Free	Jet Pop	-	08/10/04	< 5	117	-	-	-	-	< 5	117
218NE15	Still Apple & Blackberry	Smashers	-	08/10/04	< 5	102	-	-	-	-	< 5	102
218NE16	Strawberry Flavoured Sparkling Welsh Spring Water Drink	Radnor Valley	-	08/10/04	< 5	107	-	-	-	-	< 5	107
218NE17	Still Apricot & Orange Spring Water	Boots Shapers	-	08/10/04	119	134	113	134	116	137	116	135
218NE18	Sparkling Glucose Energy Drink	Explosade	-	08/10/04	< 5	134	< 5	134	< 5	134	< 5	134
218NE19	Premium High Juice Orange Squash	Spar	1:4	08/10/04	539	< 5	-	-	-	-	539 (C)	< 5 (C)
218NE20	High Juice Forest Fruits	Morrisons	1:4	08/10/04	708	< 5	-	-	-	-	708 (C)	< 5 (C)
218NE21	Apple & Blackcurrant Squash - No Added Sugar	Sainsbury's Low Price	1:4	08/10/04	< 5	414	-	-	-	-	< 5 (C)	414 (C)
218NE22	Blue Bolt	Sainsbury's	-	08/10/04	< 5	175	< 5	180	< 5	190	< 5	182
218NE23	Lemon Squash - No Added Sugar	Kwiksave	1:4	07/10/04	< 5	297	-	-	-	-	< 5 (C)	297 (C)
218NE24	Sunshine Orange	Sunkist	-	07/10/04	< 5	126	-	-	-	-	< 5	126

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218NE25	Apple Squash - No Added Sugar	Somerfield	1:4	07/10/04	< 5	302	-	-	-	-	< 5 (C)	302 (C)
218NE26	Low-Calorie Raspberry / Orange Flavoured Soft Drink Concentrate With Sweeteners	1:11	1:11	07/10/04	214	648	-	-	-	-	214 (C)	648 (C)
218NE27	Lemonade	Panda Pops	-	07/10/04	< 5	139	-	-	-	-	< 5	139
218NE28	Sparkling Scottish Spring Water - Pear - Sugar Free	MacB	-	07/10/04	< 5	90	-	-	-	-	< 5	90
218NE29	Diet Cola	Marks & Spencer	-	07/10/04	< 5	133	-	-	-	-	< 5	133
218NE30	Orange	Fanta Light	-	07/10/04	169	< 5	-	-	-	-	169	< 5
218NE31	Fruit Twist: Blackcurrant Juice Drink- No Added Sugar	MacB	-	07/10/04	125	112	-	-	-	-	125	112
218NE32	Smooth Fruit & Barley Summer Fruits	Robinsons	1:4	07/10/04	704	< 5	-	-	-	-	704 (C)	< 5 (C)
218NE33	Apple & Blackcurrant - No Added Sugar	Robinsons	1:4	07/10/04	612	13	599	11	627	15	613 (C)	13 (C)
218NE34	Peppermint Cordial	Schweppes	1:4	07/10/04	156	613	156	628	153	614	155 (C)	618 (C)
218NE35	Indian Tonic Water	Lifestyle	-	07/10/04	< 5	86	-	-	-	-	< 5	86
218NE36	Apple Squash - Low Sugar	Fanta	-	07/10/04	< 5	148	< 5	145	< 5	147	< 5	147
218NE37	Dr Pepper	Dr Pepper	-	07/10/04	< 5	133	-	-	-	-	< 5	133
218NE38	Fruit Crush Pineapple & Grapefruit	Lilt	-	07/10/04	< 5	142	-	-	-	-	< 5	142
218NE39	Red Kola	Barr	-	07/10/04	< 5	134	-	-	-	-	< 5	134
218NE40	Sprite	Sprite	-	07/10/04	< 5	142	-	-	-	-	< 5	142
218NI01	Lemon & Lime Sparkling Flavoured Water Drink	Ballygowan	-	13/12/04	< 5	137	-	-	-	-	< 5	137
218NI02	Pineappleade	Vitazade	-	13/12/04	< 5	88	-	-	-	-	< 5	88
218NI03	Fruit Flavour Drink	Mr Freeze	-	13/12/04	200	< 5	-	-	-	-	200	< 5
218NI04	Mi Juice Boost - Apple & Blackcurrant Burst - No Added Sugar	Mi Wadi	-	13/12/04	225	122	-	-	-	-	225	122
218NI05	Rock Shandy	Club	-	13/12/04	< 5	138	-	-	-	-	< 5	138
218NI06	Energise Sport	Club	-	13/12/04	186	135	-	-	-	-	186	135
218NI07	Orange Flavoured Drinks With Sweeteners	Tom and Jerry	-	13/12/04	178	< 5	-	-	-	-	178	< 5
218NI08	Sparkling Mixed Flavour Soft Drink With Sugar and Sweetener	Porte Mo	-	13/12/04	< 5	96	-	-	-	-	< 5	96
218NI09	Raspberryade	Smak	-	13/12/04	< 5	88	-	-	-	-	< 5	88

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218NI10	Blackcurrant - No Added Sugar	Mi Wadi	1:4	13/12/04	< 5	286	< 5	284	< 5	288	< 5 (C)	286 (C)
218NI11	Cola Drink	Vitazade	-	13/12/04	< 5	86	-	-	-	-	< 5	86
218NI12	Blackberry - Flavoured Natural Mineral Water	Clearly Tipperary	-	13/12/04	< 5	110	-	-	-	-	< 5	110
218NI13	Lime & Lemon Crush	Valley	-	13/12/04	115	126	114	126	116	128	115	127
218NI14	Extra Special Iron Brew	Smak	-	13/12/04	< 5	86	-	-	-	-	< 5	86
218NI15	Cola	Sprint	-	13/12/04	< 5	149	< 5	151	< 5	149	< 5	150
218NI16	Berry Red	Focus bpm Energy	-	13/12/04	< 5	135	-	-	-	-	< 5	135
218NI17	Sprite Zero	Sprite Zero	-	13/12/04	< 5	139	-	-	-	-	< 5	139
218NI18	Pineappleade	C & C	-	13/12/04	< 5	143	< 5	143	< 5	144	< 5	143
218NI19	Orange & Pineapple - No Added Sugar	Mi Wadi	1:4	13/12/04	< 5	796	< 5	792	< 5	827	< 5 (C)	805 (C)
218NI20	Orange	TK	-	13/12/04	< 5	145	< 5	146	< 5	145	< 5	145
218NI21	Blackcurrant Juice Drink - No Added Sugar	Ribena Toothkind	1:4	13/12/04	594	< 5	-	-	-	-	594 (C)	< 5 (C)
218NI22	Orange Squash - No Added Sugar	Jucee	1:4	13/12/04	< 5	338	-	-	-	-	< 5 (C)	338 (C)
218NI23	Cola	Country Spring	-	13/12/04	< 5	106	-	-	-	-	< 5	106
218NI24	Peach with Ginseng - Flavoured Sparkling Pure Water Drink	Deep RiverRock	-	13/12/04	< 5	132	-	-	-	-	< 5	132
218NI25	Stimulation Drink	Blue Bear	-	13/12/04	< 5	148	< 5	146	< 5	153	< 5	149
218NI26	Rapidz Sugar Free Summer Slipstream	Calypso	-	13/12/04	165	< 5	-	-	-	-	165	< 5
218NI27	Refresh Yourself	Boost Light	-	13/12/04	< 5	116	-	-	-	-	< 5	116
218NI28	Irish Sparkling Orange	Finches	-	13/12/04	< 5	81	-	-	-	-	< 5	81
218NI29	Pacific Island	Scope	-	13/12/04	< 5	146	< 5	147	< 5	145	< 5	146
218NI30	Orangeade - Sugar Free	Fun Factory	-	13/12/04	< 5	138	-	-	-	-	< 5	138
218NI31	Sparkling Glucose Drink	Pulsar Xtra Energy	-	13/12/04	< 5	134	-	-	-	-	< 5	134
218NI32	Cola Flavour Drink with Sweeteners - Sugar Free	Tip Top	-	13/12/04	253	< 5	-	-	-	-	253	< 5
218SC01	Juice Drink - Apple - With Sugar and Sweeteners	Twist 'n' Squeeze	-	02/11/04	184	8	186	9	184	9	185	9
218SC02	Juice Drink - Orange - With Sugar and Sweeteners	Twist 'n' Squeeze	-	02/11/04	126	11	125	11	125	12	125	11
218SC03	Icy Lemon	Fanta	-	02/11/04	< 5	135	-	-	-	-	< 5	135

Sample Code	Product as described	Brand	Recommended dilution Concentrate : Water	Date of analysis	RSSL analysis results				Somerset Scientific Service analysis results		Averaged results	
					Sorbic acid mg/l	Benzoic acid mg/l	Sorbic acid mg/l	Benzoic acid mg/l	Sorbic acid mg/l	Benzoic acid mg/l	Sorbic acid mg/l	Benzoic acid mg/l
218SC04	Berry Apple	Oasis	-	02/11/04	209	133	-	-	-	-	209	133
218SC05	Lemonade	Barr	-	02/11/04	< 5	135	-	-	-	-	< 5	135
218SC06	American Cream Soda	Barr	-	02/11/04	< 5	134	-	-	-	-	< 5	134
218SC07	Diet Irn-Bru	Barr	-	02/11/04	< 5	131	-	-	-	-	< 5	131
218SC08	Sundaze Apple	Barr	-	02/11/04	88	91	-	-	-	-	88	91
218SC09	Fruit Shoot - Strawberry - No Added Sugar	Robinsons		02/11/04	210	130	-	-	-	-	210	130
218SC10	Orange Squash	Kia-Ora	1:4	02/11/04	< 5	462	-	-	-	-	< 5 (C)	462 (C)
218SC11	Orangeade	Meri Mate Orangeutan	-	02/11/04	< 5	133	-	-	-	-	< 5	133
218SC12	Cherryade	Meri Mate Cherry Chipmunk	-	02/11/04	< 5	123	-	-	-	-	< 5	123
218SC13	Bubblegum	Meri Mate Bubbly Bee	-	02/11/04	< 5	128	-	-	-	-	< 5	128
218SC14	Sparkling Diet Lemonade	Morrisons	-	02/11/04	< 5	109	-	-	-	-	< 5	109
218SC15	Apple	Tango	-	02/11/04	206	< 5	-	-	-	-	206	< 5
218SC16	Citrus Fruits	Panda Still	-	02/11/04	207	121	-	-	-	-	207	121
218SC17	Lemon & Lime Squash - No Added Sugar	Morrisons	1:4	02/11/04	960	< 5	-	-	-	-	960 (C)	< 5 (C)
218SC18	Orange Squash	Pataya	1:4	02/11/04	704	< 5	-	-	-	-	704 (C)	< 5 (C)
218SC19	Cloudy Lemonade	Freeway	-	02/11/04	< 5	89	-	-	-	-	< 5	89
218SC20	Premium Lemonade	Freeway	-	02/11/04	< 5	132	-	-	-	-	< 5	132
218SC21	Peach Flavour Spring Water Drink - Sparkling	Superdrug	-	02/11/04	< 5	137	-	-	-	-	< 5	137
218SC22	Blackcurrant Squash - No Added Sugar	Asda	1:4	02/11/04	778	< 5	-	-	-	-	778 (C)	< 5 (C)
218SC23	Tonic Water	Marks & Spencer	-	02/11/04	171	146	146	152	170	151	162	150
218SC24	Mediterranean Lemon & Mexican Lime High Juice - 50% Fruit Juice	Marks & Spencer	1:4	02/11/04	553	< 5	-	-	-	-	553 (C)	< 5 (C)
218SC25	Whole Orange Drink With Sweeteners - No Added Sugar	Co-op	1:4	02/11/04	825	< 5	-	-	-	-	825 (C)	< 5 (C)
218SC26	Grape & Passion Fruit High Juice	Sainsbury's	1:4	02/11/04	539	< 5	-	-	-	-	539 (C)	< 5 (C)
218SC27	Lemon & Lime Naturally Flavoured Sparkling Mineral Water	Purely Scottish	-	02/11/04	< 5	139	-	-	-	-	< 5	139
218SC28	Lime Juice Cordial	Sainsbury's	1:4	02/11/04	< 5	263	-	-	-	-	< 5 (C)	263 (C)

Sample Code	Product as described	Brand	Recommended dilution Concentrate : Water	Date of analysis	RSSL analysis results				Somerset Scientific Service analysis results		Averaged results	
					Sorbic acid mg/l	Benzoic acid mg/l	Sorbic acid mg/l	Benzoic acid mg/l	Sorbic acid mg/l	Benzoic acid mg/l	Sorbic acid mg/l	Benzoic acid mg/l
218SC29	Tropical Fruit Squash - No Added Sugar	Somerfield	1:4	02/11/04	< 5	274	-	-	-	-	< 5 (C)	274 (C)
218SC30	Apple & Blackcurrant Juice Drink - No Added Sugar	Sunquen	1:4	02/11/04	747	< 5	-	-	-	-	747 (C)	< 5 (C)
218SW01	Dandelion and Burdock	Tesco	-	29/10/04	< 5	126	-	-	-	-	< 5	126
218SW02	Sparkling Diet Orange	Tesco	-	29/10/04	173	129	-	-	-	-	173	129
218SW03	Cherryade - Sugar Free	Tesco	-	29/10/04	< 5	110	-	-	-	-	< 5	110
218SW04	Premium High Juice Apple, Cherry & Raspberry	Robinsons	1:4	29/10/04	400	< 5	-	-	-	-	400 (C)	< 5 (C)
218SW05	Apple Squash - No Added Sugar	Tesco	1:4	29/10/04	< 5	269	-	-	-	-	< 5 (C)	269 (C)
218SW06	Apple & Blackcurrant Squash - No Added Sugar	Tesco	1:4	29/10/04	480	230	-	-	-	-	480 (C)	230 (C)
218SW07	High Juice Orange Squash	Tesco	1:4	29/10/04	< 5	600	-	-	-	-	< 5 (C)	600 (C)
218SW08	High Juice Apple Squash	Tesco	1:4	29/10/04	< 5	625	-	-	-	-	< 5 (C)	625 (C)
218SW09	Low Calorie Lemon Drink	Tesco Value	1:4	29/10/04	< 5	275	-	-	-	-	< 5 (C)	275 (C)
218SW10	Old Jamaica Ginger Beer	DG	-	29/10/04	< 5	143	< 5	141	< 5	139	< 5	141
218SW11	Summer Fruits	Oasis	-	29/10/04	216	132	-	-	-	-	216	132
218SW12	Lime Fizz - No Added Sugar	Sainsbury's	-	29/10/04	< 5	109	-	-	-	-	< 5	109
218SW13	Orange, Mango & Peach Crush - No Added Sugar	Sainsbury's	-	29/10/04	83	139	-	-	-	-	83	139
218SW14	Dry Ginger Ale	Sainsbury's	-	29/10/04	< 5	139	-	-	-	-	< 5	139
218SW15	Blackcurrant Squash - No Added Sugar	Spar	1:4	29/10/04	< 5	291	-	-	-	-	< 5 (C)	291 (C)
218SW16	Summer Fruits Squash - No Added Sugar	Spar	1:4	29/10/04	809	< 5	-	-	-	-	809 (C)	< 5 (C)
218SW17	Zesty Berry	Fanta	-	29/10/04	< 5	142	< 5	138	< 5	141	< 5	140
218SW18	Irn-Bru	Barr	-	29/10/04	< 5	134	-	-	-	-	< 5	134
218SW19	Orange Body Fuel	Lucozade Sport	-	29/10/04	214	61	-	-	-	-	214	61
218SW20	Fruit Shoot Orange & Peach - No Added Sugar	Robinsons	-	29/10/04	188	129	-	-	-	-	188	129
218SW21	Fruit Shoot Blackcurrant & Apple - No Added Sugar	Robinsons	-	29/10/04	203	131	-	-	-	-	203	131
218SW22	Diet Pepsi	Pepsi	-	29/10/04	< 5	142	< 5	138	< 5	141	< 5	140
218SW24	Fruit Twist	Fanta	-	29/10/04	< 5	144	< 5	142	< 5	145	< 5	144

Sample Code	Product as described	Brand	Recommended dilution Concentrate : Water	Date of analysis	RSSL analysis results				Somerset Scientific Service analysis results		Averaged results	
					Sorbic acid mg/l	Benzoic acid mg/l	Sorbic acid mg/l	Benzoic acid mg/l	Sorbic acid mg/l	Benzoic acid mg/l	Sorbic acid mg/l	Benzoic acid mg/l
218SW25	Orange	Fanta	-	29/10/04	< 5	137	-	-	-	-	< 5	137
218SW27	Summer Berry	Cwella	-	29/10/04	136	135	-	-	-	-	136	135
218SW28	Orange & Passion Fruit	Cwella	-	29/10/04	170	112	-	-	-	-	170	112
218SW30	Lemonade-Sugar Free	Tuckshop	-	29/10/04	< 5	103	-	-	-	-	< 5	103
218SW31	Sparkling Vimto	Vimto	-	29/10/04	139	121	-	-	-	-	139	121
218SW32	Sparkling Vimto Light	Vimto	-	29/10/04	205	113	-	-	-	-	205	113
218SW34	Diet Sunshine Orange	Sunkist	-	29/10/04	211	164	217	160	206	162	211	162
218SW35	Mixed Berry Body Fuel	Lucozade Sport	-	29/10/04	225	56	-	-	-	-	225	56
218SW36	Sparkling Cherry	Little Smashers	-	29/10/04	< 5	134	-	-	-	-	< 5	134
218SW37	Pink Grapefruit Smooth Fruit & Barley	Robinsons	1:4	29/10/04	779	< 5	-	-	-	-	779 (C)	< 5 (C)
218SW38	Apple & Blackcurrant Fruit Squash	Robinsons	1:4	29/10/04	611	383	-	-	-	-	611 (C)	383 (C)
218SW39	Blackcurrant Juice Drink	Ribena Original	1:5	29/10/04	< 5	570	-	-	-	-	< 5 (C)	570 (C)
218SW40	Apple and Blackcurrant Squash	Pataya	1:4	29/10/04	761	< 5	-	-	-	-	761 (C)	< 5 (C)
218WA01	Cherryade - No Added Sugar	Somerfield	-	17/11/04	< 5	109	-	-	-	-	< 5	109
218WA02	Pink Grapefruit and Barley Drink - No Added Sugar	Somerfield	1:4	17/11/04	804	< 5	778	12	786	10	789 (C)	9 (C)
218WA03	Red Rooster Stimulation Drink	Cott Beverages	-	17/11/04	< 5	140	-	-	-	-	< 5	140
218WA04	Slightly Sparkling Spring Water Drink Fused with Grapefruit	Somerfield	-	17/11/04	< 5	132	-	-	-	-	< 5	132
218WA05	Limeade - Sugar Free	Tesco	-	17/11/04	< 5	117	-	-	-	-	< 5	117
218WA06	Whole Lemon Squash - No Added Sugar	Tesco	1:4	17/11/04	< 5	270	-	-	-	-	< 5 (C)	270 (C)
218WA07	Summerfruit Squash - No Added Sugar	Tesco	1:4	17/11/04	619	< 5	-	-	-	-	619 (C)	< 5 (C)
218WA08	Apple and Elderflower Juice Drink	Tesco	-	17/11/04	< 5	10	< 5	11	-	-	< 5	11
218WA09	Orangeade - No Added Sugar	Carnival	-	17/11/04	< 5	110	-	-	-	-	< 5	110
218WA10	Low Calorie Lemonade	Iceland	-	17/11/04	< 5	120	-	-	-	-	< 5	120
218WA11	Cherryade	Panda Pops	-	17/11/04	< 5	139	-	-	-	-	< 5	139
218WA12	Sparkling Strawberry & Kiwi Flavoured Spring Water	Lifestyle	-	17/11/04	< 5	129	-	-	-	-	< 5	129
218WA13	Still Strawberry	Smashers	-	17/11/04	< 5	112	-	-	-	-	< 5	112
218WA14	Passion Sparkling Exotic Fruit Drink	Rubicon	-	17/11/04	143	101	-	-	-	-	143	101
218WA15	Lemonade	Schweppes	-	17/11/04	< 5	131	-	-	-	-	< 5	131

Sample Code	Product as described	Brand	Recommended dilution Concentrate : Water	Date of analysis	RSSL analysis results				Somerset Scientific Service analysis results		Averaged results	
					Sorbic acid mg/l	Benzoic acid mg/l	Sorbic acid mg/l	Benzoic acid mg/l	Sorbic acid mg/l	Benzoic acid mg/l	Sorbic acid mg/l	Benzoic acid mg/l
218WA16	Lemon Squash - No Added Sugar	Asda	1:4	17/11/04	< 5	199	-	-	-	-	< 5 (C)	199 (C)
218WA17	Blue Charge - High Impact Stimulation Drink	Asda	-	17/11/04	< 5	148	< 5	149	< 5	150	< 5	149
218WA18	Blackcurrant Squash High Juice	Hyberry	1:4	17/11/04	< 5	496	-	-	-	-	< 5 (C)	496 (C)
218WA19	Whole Orange Drink - No Added Sugar	Sunquen	1:4	17/11/04	1008	< 5	972	16	1040	10	1007 (C)	10 (C)
218WA20	Orange Flavour Still Soft Drink	Squeeze Pops	-	17/11/04	87	127	83	129	83	124	84	127
218WA21	Tropical Splash	Sunkist	-	17/11/04	208	135	-	-	-	-	208	135
218WA22	Fizzy Lemonade	Best-In	-	17/11/04	< 5	131	-	-	-	-	< 5	131
218WA23	Apple & Blackcurrant Squash	Jucee	1:4	17/11/04	< 5	620	-	-	-	-	< 5 (C)	620 (C)
218WA24	Blackcurrant Juice Drink	Ribena Light	1:5	17/11/04	567	< 5	-	-	-	-	567 (C)	< 5 (C)
218WA25	Orange - No Added Sugar	Robinsons Special R	1:4	17/11/04	612	< 5	-	-	-	-	612 (C)	< 5 (C)
218WA26	Apple	Robinsons Original	1:4	17/11/04	561	< 5	-	-	-	-	561 (C)	< 5 (C)
218WA27	Orange & Passion Fruit Juice Drink	Britvic J2O	-	17/11/04	259	< 5	-	-	-	-	259	< 5
218WA28	Dandelion & Burdock	Ben Shaws	-	17/11/04	< 5	137	-	-	-	-	< 5	137
218WA29	Sugar Free Raspberry Flavour Soft Drink With Sweeteners	Big Time	-	17/11/04	139	13	-	-	-	-	139	13
218WA30	Fizzy Bubblegum	Best-In	-	17/11/04	< 5	127	-	-	-	-	< 5	127

Table 3 – Analytical results from RSSL and SSS laboratories for 15 random samples

	Sorbic acid mg/l		Benzoic acid mg/l	
	RSSL	SSS	RSSL	SSS
218NE05	< 5	< 5	129	132
218NE23	< 5 (C)	< 5 (C)	297 (C)	307 (C)
218NE24	< 5	< 5	126	130
218NE26	214 (C)	219 (C)	648 (C)	678 (C)
218NE31	125	128	112	117
218SW04	400 (C)	458 (C)	< 5 (C)	< 5 (C)
218SW19	214	215	61	60
218SW31	139	141	121	119
218SW36	< 5	< 5	134	129
218SW40	761 (C)	786 (C)	< 5 (C)	< 5 (C)
218SC07	< 5	< 5	131	133
218SC10	< 5 (C)	< 5 (C)	462 (C)	538 (C)
218SC16	207	212	121	130
218SC19	< 5	< 5	89	118
218SC23	171	167	146	150

Note

Concentrates results are in italics and also marked with (C).

Results are reported for samples as purchased. Therefore for concentrates (i.e. squashes) the results have not been corrected for dilution. The limits specified in the Miscellaneous Food Additives Regulations refer to foods ready for consumption as prepared following manufacturers' instructions.

Table 4 – Analytical results of samples with unlabelled sorbates or benzoates, and samples with levels of benzoates above the maximum permitted level

Note

< 5 = less than reporting limit of 5 mg/l. The result for concentrates (*in italics*) has not been corrected for dilution and so refers to the sample as purchased, not as prepared for consumption. The limits specified in the Miscellaneous Food Additives Regulations refer to foods ready for consumption as prepared following manufacturers' instructions.

Sample Code	Product as described	Brand	Date of analysis	RSSL analysis results				Somerset Scientific Service analysis results		Averaged results from both labs		Comment
				Sorbic acid mg/l	Benzoic acid mg/l	Sorbic acid mg/l	Benzoic acid mg/l	Sorbic acid mg/l	Benzoic acid mg/l	Sorbic acid mg/l	Benzoic acid mg/l	
218LO38	Mango Fruit Drink - Natural	Original	25/02/05	87	106	86	106	86	105	86	106	Undeclared sorbate
218MI37	Still Aqua Splash Orange & Mandarin	Radnor Hills	19/01/05	68	119	68	119	67	119	68	119	Undeclared sorbate
218MI39	Black Cherry	Boylan Bottleworks	19/01/05	< 5	230	< 5	227	< 5	229	< 5	229	Benzoate level above MPL
218NE22	Blue Bolt	Sainsbury's	08/10/04	< 5	175	< 5	180	< 5	190	< 5	182	Benzoate level above MPL
218NI13	Lime & Lemon Crush	Valley	13/12/04	115	126	114	126	116	128	115	127	Undeclared sorbate
218NI19	Orange & Pineapple - No Added Sugar	Mi Wadi	13/12/04	< 5	796	< 5	792	< 5	827	< 5	805	Benzoate level above MPL (Result after diluted according to manufacturer's instruction = 161 mg/l) benzoic acid)
218SW34	Diet Sunshine Orange	Sunkist	29/10/04	211	164	217	160	206	162	211	162	Benzoate level above MPL
218WA20	Orange Flavour Still Soft Drink	Squeeze Pops	17/11/04	87	127	83	129	83	124	84	127	Undeclared sorbate

ANNEX 1 WRITTEN COMMENTS RECEIVED FROM COMPANIES

The comments in this Annex were sent by the companies named below to the Food Standards Agency in response to their being notified of results for samples of drinks that they supply. As mentioned previously not all the companies contacted chose to submit a response for publication.

Sample Code: 218M137

Radnor Hills Mineral Water Company Ltd.

“Radnor Hills Mineral Water has investigated this anomaly and we have established that a number of bottles (from a batch of 9288 bottles) were labelled with the incorrect label for the product formulation used for this batch. At the time this product was filled (22/09/04), we were carrying two different labels, one for export customers who take a sodium benzoate formulation and UK customers who we had started to move to a mixed preservative system. It is clear that a mix up occurred. The difference between labels was not seen at the time of filling possibly because of the similar E number of another ingredient used in the benzoate formulation, namely E242 and that of potassium sorbate – E202.

During October 2004 we reorganised our label storage area and instituted a system to apply self-adhesive identification stickers to differentiate between similar designs but different composition/customer label packs. Following the findings of this survey, we conducted a thorough review of our recipe and label handling procedures and are confident that our systems are sufficiently robust to prevent any likelihood of a recurrence.”

Sample Code: 218EA11

Sample Code: 218NE33

From: Britvic Soft Drinks Ltd

“With respect to the observation that the results indicate benzoic acid is present at a low level in these products, but this preservative is not declared on the labels, the reason for this is as follows. The benzoic acid is present at a low level in the products as carryover from ingredients used in the drinks. The benzoic acid serves no significant technological

function in the finished products. Under regulation 17 of the Food Labelling Regulations 1996, any additive which is present in the food solely because it was contained in an ingredient of the food, if it serves no significant technological function in the finished product, does not need to be named in the list of ingredients. We have discussed this with our Trading Standards Officer who is in agreement with this interpretation.”