

FOOD SURVEY INFORMATION SHEET

NUMBER 18/06 November 2006

SURVEY OF BENZOPHENONE AND 4-HYDROXYBENZOPHENONE MIGRATION FROM FOOD PACKAGING INTO FOODSTUFFS

Summary

- This information sheet reports the results of a survey that has tested foods that may have been exposed to benzophenone and/or 4-hydroxybenzophenone as a chemical migrant from either primary or secondary printed packaging.
- There are no specific EU controls for migration from inks and their associated coatings, however there is a Group Tolerable Daily Intake (Group TDI) for benzophenone and 4-hydroxybenzophenone of 0.01 milligram/kilogram (mg/kg) bodyweight (bw). There is specific legislation for food contact plastics, Directive 2002/72/EC, in which there is a specific migration limit (SML) for benzophenone of 0.6 mg/kg. This survey has been undertaken to determine whether the Group TDI is being met for foods packaged in printed paper or board, or to which a printed label has been attached to the primary packaging, and whether the SML is being observed for foods packaged in printed plastics.
- The survey was conducted in two phases. In *Phase One*, 350 foodstuffs were tested that had been packaged directly or indirectly in printed paper or board (virgin or recycled), or in packaging to which a printed sticky label was attached. In *Phase Two*, 115 foodstuffs packaged in printed plastic were tested.
- The presence of 4-hydroxybenzophenone was not confirmed in any of the *Phase One* or *Phase Two* samples tested.

- The presence of benzophenone was confirmed in 61 of the 350 samples (17 per cent) tested in *Phase One*. Levels found do not pose a health concern. Based on these results, estimated intake of benzophenone was less than the toxicological Group TDI of 0.01 mg/kg bw set by the European Commission Scientific Committee on Food (SCF). Intake was estimated at 0.0012 - 0.0015 mg/kg bw, i.e., 12 - 15 per cent of the Group TDI.
- There was little evidence of benzophenone in foods to which a printed label has been attached to the primary packaging.
- Following the previous survey (FSIS 6/00) industry was asked by the Agency to keep migration to a minimum. Limited success has been achieved since then. The highest level of benzophenone measured in food has fallen from 7.3 mg/kg to 4.5 mg/kg. Mean results were comparable: 0.90 mg/kg (n=49) with a standard deviation of 1.5 and 0.93 mg/kg (n=61) with a standard deviation of 1.1 in 2000 and 2006 respectively.
- There was some evidence that particular foods and printed packaging formats, together with storage conditions, may be associated with migration of benzophenone. Migration from printed paper or board packaging into foodstuffs stored at low temperature should be considered by food manufacturers and packers when deciding appropriate packaging formats.
- All samples tested in *Phase Two* complied with the law. The presence of benzophenone was confirmed in four of the 115 samples packaged in printed plastic. The maximum level found was 0.15 mg/kg (one quarter of the SML).

Background

The survey

The purpose of this survey was to test foods that may have been exposed to benzophenone and 4-hydroxybenzophenone as a chemical migrant from either primary or secondary printed packaging. Benzophenone is used as a photoinitiator for inks and lacquers that are cured with ultraviolet (UV) light. These inks are traditionally used in lithographic and letterpress printing processes and benzophenone may be present in cartonboard food packaging materials as a residue from UV-cured inks and lacquers used to print on the packaging.¹ Benzophenone may also be present in printed secondary packaging, for example corrugated board, and in recycled, printed paper or board if the recycling process has not fully stripped it from the substrate. It has been shown that benzophenone may migrate from such secondary packaging, through the packaging layer

in direct contact with food, into the food itself.^{2,3} UV inks have also been reported to be used to print on labels.⁴ 4-Hydroxybenzophenone may be used as a photoinitiator and is marketed as an additive for UV coatings.

In October 2000 the Food Standards Agency published a survey on benzophenone from cartonboard (FSIS 6/00).⁵ Three hundred and fifty samples of food packaged in printed cartonboard were purchased and benzophenone was found at 0.05 - 3.3 milligrams per square decimetre (mg/dm²) in 143 samples (41 per cent) of the cartonboard. Benzophenone was detected in 72 per cent (51/71) of food samples packaged in this printed cartonboard and at measurable amounts (0.01 - 7.3 milligrams/kilogram (mg/kg)) in 69 per cent (49/71). Of the 49 samples found to contain measurable amounts, 30 samples (61 per cent) contained levels less than or equal to 0.6 mg/kg. 11 Samples (22 per cent) had levels higher than 1 mg/kg. The remaining 8 samples (16 per cent) had levels between 0.61 and 0.99 mg/kg. No health effects would be expected in an individual's lifetime from the levels found in that survey. It was noted that there may have been some contribution to benzophenone levels in some of the samples from its use as a flavouring. However, this substance was not detected in some of the food samples whose packaging had tested positive. At the time industry were directed by the Agency to keep migration of benzophenone from cartonboard into food to a minimum.

All materials and articles in contact with food are controlled in the European Union by the Framework Regulation.⁶ The general requirements of this legislation are that all materials and articles shall be manufactured so that they do not transfer their constituents to food in quantities which could: endanger human health, bring about an unacceptable change to the composition of the food, or bring about a deterioration in its organoleptic characteristics. There are no specific controls for migration from inks and their associated coatings. However, there is a Group Tolerable Daily Intake (Group TDI) for benzophenone and 4-hydroxybenzophenone of 0.01 mg/kg bodyweight (bw).⁷ There is specific legislation for plastics, Directive 2002/72/EC, in which there is a specific migration limit (SML) for benzophenone of 0.6 mg/kg.⁸ This survey has been undertaken to determine whether the Group TDI is being observed for foods packaged in printed paper or board, or to which a printed label has been attached to the primary packaging, and whether the SML is being observed for foods packaged in printed plastics.

The survey was conducted in two phases. In the *Phase 1*, 350 foodstuffs were tested. These samples comprised:

- Foodstuffs packaged directly in contact with printed paper or board or printed recycled paper or board.
- Foodstuffs with printed paper or board or printed recycled materials present in the secondary packaging (not in direct contact with the foodstuff).
- Foodstuffs to which a printed label had been applied to the primary packaging material.

During the initial stages of method development and validation, high (approximately 10 times the SML) levels of benzophenone were found in a grated cheese sample which had been packaged in printed plastic. The respective product was withdrawn by the retailer. The survey was extended to include 115 samples of foodstuffs packaged in printed plastics (*Phase 2*) to check that there were no other such products on sale.

Methodology

Samples and timing

Phase 1. Three hundred and fifty samples (Table 1a) of foods packaged directly or indirectly in printed paper or board (virgin or recycled) or in packaging to which a printed paper sticky label was attached were obtained. (N.B. 352 samples were purchased but two were not tested for migration because too many of a given type of sample had been obtained). Samples were purchased mainly in northern England between February and March 2006. Analytical work was completed in April 2006. The results were collated, checked and reviewed in May 2006.

A wide variety of food samples were obtained. Food samples packaged directly or indirectly in printed virgin and/or recycled paper or board included: savoury snacks: 40 samples; sweets, chocolates, biscuits and crisps: 35 samples; bakery products: 35 samples; baking ingredients: 24 samples; cereals: 25 samples; ready meals: 20 samples; frozen microwaveable foods: 15 samples; frozen beef/chicken/veggie burgers: 10 samples; frozen fish products: 10 samples; rice and pasta: 10 samples; desserts: 10 samples; gravy/ cooking sauces: 10 samples; teabags: 5 samples; fruit juice: 5 samples; soup: 5 samples; jelly: 4 samples; sandwiches: 4 samples; other: 28 samples. Food samples to which a printed label had been applied included: fruit and vegetables: 10 samples; beverages (milk, fruit juice, fizzy drinks, water): 10 samples; fresh and processed

meat and fish: 10 samples; yoghurts and other dairy desserts: 5 samples; cheese: 5 samples; bread and sandwiches: 6 samples; other: 8 samples (including 1 jelly).

Phase 2. One hundred and fifteen samples of foods packaged in printed plastic (Table 1b) were purchased mainly in northern England in July and August 2006. Analytical work was completed in August 2006. The results were collated, checked and reviewed in September 2006. Food samples packaged directly in printed plastic included: cheese: 15 samples; bread and bakery products: 10 samples; sweets, biscuits and crisps: 10 samples; yoghurts and dairy desserts (including cream): 10 samples; savoury snacks: 10 samples; fruit and vegetables: 10 samples; frozen foods: 10 samples; rice, pasta and noodles: 5 samples; margarine: 5 samples; cook-in-pot snacks: 5 samples; coleslaw, cottage cheese, potato salad: 5 samples; cooking sauces: 3 samples; seeds and nuts: 2 samples; other: 15 samples.

All samples (*Phases 1 and 2*) were purchased from a range of major and smaller national retail outlets as well as independent retailers and via the Internet. Similar numbers of supermarkets' own brand goods and other goods were obtained. The ratio of purchases between supermarket chains and small outlets was approximately 70:30.

Food samples were obtained in triplicate. Each sample set was assigned a unique sample code. Two of the triplicate samples were overwrapped in aluminium foil and placed immediately in a freezer. The other sample was prepared for analysis. Any foodstuffs with on-pack instructions, to be cooked in the packaging, were prepared according to the instructions on the pack. Then the foodstuff was removed from the packaging, overwrapped in aluminium foil and stored in a freezer (-20°C). The packaging material was overwrapped in aluminium foil and stored at room temperature. Foodstuffs not intended to be cooked in the packaging were removed from the packaging on receipt at the laboratory. The food and packaging were separately overwrapped in aluminium foil and stored as above.

Analytical method (*Phases 1 and 2*)

Overview

Benzophenone and 4-hydroxybenzophenone were determined by solvent extraction followed by analysis of the extracts using gas chromatography coupled with mass spectrometry (GC-MS). The method of analysis was based on that used in an earlier survey determining benzophenone in foods.⁵ Quantitation was achieved using d₁₀-benzophenone and 4-fluoro-4'-hydroxybenzophenone as internal standards. Calibration curves were obtained by analysis of acetonitrile containing known amounts of the two analytes, benzophenone and 4-hydroxybenzophenone, and internal standards.

Standard solutions

Stock solutions of benzophenone, 4-hydroxybenzophenone, d₁₀-benzophenone and 4-fluoro-4'-hydroxybenzophenone were prepared in acetonitrile at 1000 mg/L. Stock solutions were diluted with acetonitrile to form calibration standards containing benzophenone and 4-hydroxybenzophenone (at 0 to 6.0 mg/L). Each contained 1.5 mg/L of both d₁₀-benzophenone and 4-fluoro-4'-hydroxybenzophenone as internal standards. Fresh solutions were prepared monthly and stored in the dark at +5°C.

Sample preparation

Solid foodstuffs were homogenised using a food blender. Liquid foods were mixed by shaking. A specimen of the homogenised food (5.0 g) was transferred to a 40 ml glass vial. Internal standards (150 microlitres of a 10 mg/L mixed solution in acetonitrile) were added and the sample was allowed to stand for 15 minutes. Duplicate samples were prepared. The samples were extracted by shaking overnight with acetonitrile:dichloromethane (1:1, 10 ml). The mixture was centrifuged and the solvent layer was removed. The remaining solid was re-extracted, by shaking for 1 hour, with a second portion of acetonitrile:dichloromethane (1:1, 10 ml). The mixture was centrifuged and the two solvent layers were combined and evaporated to dryness under a gentle stream of nitrogen. Hexane (5 ml) was added to the dry residue and shaken. Acetonitrile (5 ml) was added and the mixture was shaken for 5 minutes. The acetonitrile layer was removed and the hexane was re-extracted with a second portion of acetonitrile (5 ml). The two acetonitrile fractions were combined, evaporated to dryness and the residue was

re-suspended in 1 ml of acetonitrile. The resulting solution was transferred to a glass vial for analysis by GC-MS.

Analysis

All samples were analysed by GC-MS using either an Agilent MSD 5973inert or a ThermoQuest Voyager GC-MS operated in selected ion monitoring mode with electron impact ionisation, under the following conditions:

Column:	Zebron ZB-50* (50 per cent phenyl- and 50 per cent dimethyl-polysiloxane) 30 m x 0.25 mm id x 0.25 micrometre film thickness
Injection mode:	Splitless, 20 seconds
Inlet temperature:	250°C
Injection volume:	1.0 microlitre
Carrier gas:	Helium
Flow rate:	1.2 ml/minute
Transfer line temp:	280°C
Oven programme:	50°C for 1 minute Raise to 280°C at 20°C per minute Hold for 5 minutes
Ions monitored:	m/z 77, 105, and 182 for benzophenone m/z 110 and 192 for internal standard d ₁₀ -benzophenone m/z 77, 105 and 198 for 4-hydroxybenzophenone m/z 121 and 216 for internal standard 4-fluoro-4'-hydroxy-benzophenone

* N.B. On occasion a ZB-1 or a ZB-5ms column was used to improve separation if there were interference problems with analyte peaks due to particular food matrices.

Analyte identification and quantitation

Calibration lines were constructed for the solvent standards by plotting the following:

- the peak area ratio of m/z 182 for benzophenone versus m/z 192 for d₁₀-benzophenone against the level of benzophenone; and
- the peak area ratio of m/z 198 for 4-hydroxybenzophenone versus m/z 216 for 4-fluoro-4'-hydroxybenzophenone against the level of 4-hydroxybenzophenone.

For each survey sample a 'spike' was prepared by fortifying the foodstuff with the two analytes each at a concentration of 0.3 mg/kg. The 'spiked' samples were extracted in the same way as the samples described above and the analyte levels determined from the appropriate calibration graph. The results were used to determine the analytical recovery.

Confirmation criteria

Benzophenone and 4-hydroxybenzophenone were confirmed by applying 3 obligatory criteria:

- The ion ratios for m/z 182/77 and 182/105 for benzophenone and m/z 198/77 and 198/105 for 4-hydroxybenzophenone should be within plus or minus 20 per cent of that obtained from the calibration standards.
- The retention time for each analyte peak relative to its respective internal standard should agree to within plus or minus 2 per cent of that obtained from calibration standards.
- The full scan mass spectrum of the sample when compared to the calibration standards should give no additional ions (in excess of 20 per cent) in the sample spectrum which are not present in the standard spectrum.

Quality assurance

'Spiked' samples

Analysing representative foods 'spiked' with appropriate levels of benzophenone and 4-hydroxybenzophenone tested the suitability of the analytical method to determine these substances in foods. The foods chosen for this exercise were turkey, cheese and orange juice. These foods were chosen to represent high protein, fat and carbohydrate foods respectively. Known volumes of standard solutions were allowed to infuse into the foods prior to analysis. Measurement accuracy on 'spiked' samples ranged from 91 to 108 per cent as demonstrated in the check sample exercise described below. Samples were

prepared as replicate specimens (n=8) to obtain repeatability data. Repeatability ranged from 1.3 to 7.5 per cent depending on the substance and the food type under investigation.

Internal quality control

For the foodstuffs a typical batch size was 5 survey samples, each prepared in duplicate. Each analytical batch also included at least one method blank and control samples. One control sample was prepared for each food survey sample since recovery varied depending on the substance and matrix being analysed. Control samples were prepared by fortifying the homogenised foodstuff with known masses of benzophenone and 4-hydroxybenzophenone. The recovery for each sample was calculated from the analysis of the control samples compared to the analytical standard solutions. Sample extracts were interspersed in the sample sequence of each batch with bracketing standards. An in-house reference material was analysed in each batch.

Check sample exercise – test for accuracy

Six examples of each foodstuff (cheese, turkey and orange juice) were 'spiked' with benzophenone and 4-hydroxybenzophenone so that they could be analysed 'blind' as a check of method accuracy. Samples were prepared at the Procter Department of Food Science, University of Leeds. The samples were then supplied to the laboratory that was to carry out the survey. In all cases the testing laboratory correctly identified the blanks and the 'spiked' samples. For each 'spike' portions of cheese, turkey or orange juice (5 g) were 'spiked' with different aliquots of a solution of benzophenone and 4-hydroxybenzophenone (10.6 micrograms/ml and 11.5 micrograms/ml respectively in acetonitrile).

Reporting

Brand names were reported as this survey was carried out in accordance with the Food Standards Agency's guidelines. The absence of a particular brand from Tables 1a and 1b means only that the brand was not included in the survey. The analytical results for all samples were corrected for recovery.

Results, interpretation and action

The analytical methodology used in this survey was shown to be working effectively before survey samples were obtained. There was good agreement between added and

determined levels of benzophenone and 4-hydroxybenzophenone in the check sample exercises (Tables 2-4).

Phase 1

Limits of detection were dependent on food matrices. Worst case limits of detection for benzophenone and 4-hydroxybenzophenone were 0.041 mg/kg and 0.060 mg/kg respectively. The presence of 4-hydroxybenzophenone was not confirmed in any of the samples tested. A peak was observed in the chromatograms of 10 samples at the correct ion mass and retention time for 4-hydroxybenzophenone, but the levels were too low to confirm that the peak observed was due to the presence of this substance using the rigorous confirmation criteria applied in this study.

The presence of benzophenone was confirmed in 61 of the 350 samples (17 per cent). A peak was observed in the chromatograms of a further 106 samples (30 per cent) at the correct ion mass and retention time for benzophenone but the levels were too low to confirm that the peak observed was due to the presence of this substance using the rigorous confirmation criteria applied in this study. Each sample, in which the presence of benzophenone was confirmed was re-analysed. The mean result of the duplicate analysis and the associated measurement uncertainty (95 per cent confidence level) for each of these samples is given in Table 5. The mean concentrations ranged from 0.029 - 4.5 mg/kg. Of these 61 samples, 37 had a mean result less than or equal to 0.6 mg/kg and 18 had mean levels higher than 1 mg/kg. The highest level found was 4.5 ± 0.73 mg/kg in sample BZ172, an orange flavoured jelly powder.

The levels found do not pose a health concern. Estimated intake of benzophenone was less than the toxicological Group TDI of 0.01 mg/kg body weight set by the European Commission Scientific Committee on Food (SCF).⁷ Intake was estimated at 0.0012 - 0.0015 mg/kg bw (12 - 15 per cent of the Group TDI). This estimate was made using: the data from Table 5; a 97.5 percentile value for daily consumption of the foods that were tested (449 g); a mean value bodyweight of 60 kg; and upper and lower bound concentration levels (based on the highest limit of quantitation (0.045 mg/kg) and zero respectively for non-confirmed samples).

Data reported in this study are for a different and wider spectrum of foods than those surveyed previously.⁵ Indeed, the foods analysed in the 2000 survey were those

deliberately targeted following the confirmation of benzophenone in their associated packaging. Nevertheless, intake levels are comparable across the two surveys. The highest level of benzophenone measured in any one food in this survey was less than that found previously (4.5 mg/kg in 2006 compared to 7.3 mg/kg in 2000). Mean results were comparable: 0.90 mg/kg (n=49) with a standard deviation of 1.5; and 0.93 mg/kg (n=61) with a standard deviation of 1.1 in 2000 and 2006 respectively. There was a slight increase in the number of samples found to have more than 1 mg/kg (30 per cent in 2006 compared to 22 per cent in 2000).

Fifteen per cent (54 out of 350) of the samples were in packs to which a printed sticky label had been attached. Only one of these samples (BZ218) tested positive, at 0.029 mg/kg. Benzophenone was confirmed in a greater proportion (60 out of 296) of the samples packed in printed paper or board. The one positive 'sticky label' sample was one of seven samples from the 'sandwich' category (4 printed paper or board, 3 sticky label). Two of the four printed paper or board 'sandwich' category tested positive, BZ33 and BZ284 with levels of 0.27 and 0.78 mg/kg respectively.

Further analysis of the data for the printed paper or board samples indicates that benzophenone migration may be associated with foods of a particular type and certain storage conditions. For example in the frozen food categories 18 out of 35 of the foods tested had levels between 0.066 and 3.9 mg/kg. This finding confirms previous research work conducted in an Agency-funded project in which evidence was obtained that migration of chemicals into frozen foods could occur, despite the low temperatures at which they are held.⁹ The levels found do not pose a health concern, nevertheless, evidence of possible migration in products stored at low temperature should be considered by industry when deciding packaging formats.

In total five jelly samples were tested, four in printed paper or board. Of these four, BZ114, BZ143 and BZ172 were found to contain benzophenone at mean concentrations of 0.13, 0.19 and 4.5 mg/kg respectively. (All samples to be diluted with water prior to consumption). Benzophenone was not detected in the one jelly sample (BZ08) with a printed 'sticky' label attached. In the savoury snacks category 15 out of 40 of the foods tested had levels between 0.11 and 3.3 mg/kg. Categories where only a small number or no samples tested positive included the groups of: sweets, chocolate biscuits and crisps

(five out of 35); bakery products (eight out of 35); cereals (four out of 25); ready meals (one out of 20); and desserts (none out of 10).

The results show the presence of benzophenone in some foods packaged either directly or indirectly in printed paper or board. There is little evidence of benzophenone in foods to which a printed label has been attached to the primary packaging. At the time of reporting the previous survey (FSIS 6/00) industry were asked by the Agency to keep migration to a minimum.⁵ Some success has been achieved since then. The highest level of benzophenone measured in food has fallen from 7.3 mg/g to 4.5 mg/kg. Of the 350 samples tested in *Phase 1*, 289 (83 per cent) did not have measurable levels of benzophenone.

Phase 2

Phase 2 included 15 samples of cheese of a similar type and packaging format to the sample that had been found to have a high level of benzophenone during the check exercise. A sample from the supplier with the problematic sample was included amongst these 15. The presence of benzophenone was not confirmed in any of the cheese samples.

All survey samples packaged in printed plastic complied with the law. Limits of detection were dependent on food matrices. Worst case limits of detection for benzophenone and 4-hydroxybenzophenone were 0.029 mg/kg and 0.044 mg/kg respectively. The presence of 4-hydroxybenzophenone was not confirmed in any of the samples tested. A peak was observed in the chromatograms of eight samples at the correct ion mass and retention time for 4-hydroxybenzophenone, but the levels were too low to confirm the presence of this substance using the rigorous confirmation criteria applied in this study. For one sample (BPL95, a black pepper powder) neither the 4-hydroxybenzophenone 'spike' nor the internal standard could be recovered from the solvent extract. But recovery for the benzophenone 'spike' and its labelled internal standard was satisfactory. It was concluded that 4-hydroxybenzophenone reacted with pepper constituents and thus measurement of migration for this particular sample was not possible.

The presence of benzophenone was confirmed in four of the 115 samples (3.5 per cent). A peak was observed in the chromatograms of a further 37 samples (32 per cent) at the correct ion mass and retention time for benzophenone but the levels were too low to

confirm the presence of this substance using the rigorous confirmation criteria applied in this study. Each sample, for which the presence of benzophenone was confirmed, was re-analysed. The mean result of the duplicate analysis and the associated measurement uncertainty (95 per cent confidence level) for each of these samples is given in Table 6. In the four confirmed samples, benzophenone concentrations ranged from 0.069 – 0.15 mg/kg. The highest level found was a quarter of the 0.6 mg/kg SML.

References

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Copies of this survey have been placed on the Agency's website and in the library in Aviation House, 125 Kingsway, London WC2B 6NH.

Table 1a: Details of samples obtained in Phase 1

Two of the samples purchased were not tested for migration because too many of a given type of sample had been purchased.
 NA: not applicable.

Code	Product	Brand	Size / Product weight	Country of origin	Batch code	Barcode	Best-before-date	Date of purchase	Retail Outlet
BZ01	Cheese deli filler	Asda smart price	140 g	UK	None given	W 2764 0456 G	13 FEB	06/02/2006	Asda
BZ02	Long grain rice	Uncle Ben's	500 g	Belgium	A	5 410673 103000	04 07 08	06/02/2006	Asda
BZ03	Canadian extra mature white cheddar cheese	Asda	250 g	Canada	Y 06 15:14	W 2715 2188 G	23 MAR	06/02/2006	Asda
BZ04	Winnie the Pooh chocolate sponge cake	Disney	40 g	None given	BAT/030	5 024831 260445	28/02/06	06/02/2006	Asda
BZ05	Vegetable & cheese pie	Asda	200 g	UK	L3 10:09	W 2769 0611 G	10 FEB	06/02/2006	Asda
BZ06	12 Potato waffles	Asda	680 g	Belgium	5308A EBI	W 2038 6610 G	04 05 2007	06/02/2006	Asda
BZ07	Little bear wafers	Marcantonio	35 g	England	L05/251	5 011229 000110	08/09/07	06/02/2006	Asda
BZ08	Wobbly jelly	Asda	135 g	Malta	L5 340 13:51	W 2772 8949 G	06 DEC 2006	06/02/2006	Asda
BZ09	Bigga dried peas	Batchelors	250 g	None given	6010W	5 000175 413402	DEC07	06/02/2006	Asda
BZ10	2 Egg custard tarts	Asda	170 g	UK	BH	5 050854 203909 G	06FEB	06/02/2006	Asda
BZ11	Cheese & onion individual quiche	Sainsbury's	180 g	UK	16:55	0105 3487	09 FEB	06/02/2006	Sainsbury's
BZ12	Organic whole milk	Sainsbury's organic	568 ml	UK	None given	0126 1943	14 FEB	06/02/2006	Sainsbury's
BZ13	Cooked ham	Sainsbury's basics	400 g	Produced in the UK from British, Dutch, Danish or German pork	None given	0105 2725	14 FEB	06/02/2006	Sainsbury's
BZ14	Chicken liver pâté	Sainsbury's be good to yourself	170 g	Belgium	None given	0114 8886	26 FEB	06/02/2006	Sainsbury's
BZ15	2 Free range Scotch eggs	Sainsbury's	225 g	UK	None given	0122 7215	14 FEB	06/02/2006	Sainsbury's
BZ16	Rye crackers with sesame seeds	Jacob's	150 g	None given	6004 ST	5 000137 101613	26 08 2006	06/02/2006	Sainsbury's
BZ17	Parsley sauce	Bisto	200 g	None given	5349 10:30	5 036040 144744	FEB 07	06/02/2006	Sainsbury's
BZ18	Broccoli	Sainsbury's	300 g	Spain	MO249ST	0007 6630	10 FEB	06/02/2006	Sainsbury's
BZ19	Sage and Onion Stuffing	Paxo	85 g	None given	5354Λ	5 010024 103910	MAR 07	06/02/2006	Sainsbury's

Code	Product	Brand	Size / Product weight	Country of origin	Batch code	Barcode	Best-before-date	Date of purchase	Retail Outlet
BZ20	Sun-dried tomato risotto pronto	Riso Gallo	250 g	Italy	CH 1503	8 001420 003338	03/04/07	06/02/2006	Sainsbury's
BZ21	Cheerios	Nestlé	375 g	None given	P1 60100943 12:46B1	5 011476 100069	28/12/2006	06/02/2006	Tesco
BZ22	6 Lemon drizzle cake slices	Tesco healthyliving	138 g	UK	None given	5 050179 673418	19/02/06	06/02/2006	Tesco
BZ23	Lasagne sheets	Tesco value	250 g	Italy	L5321 B CA	5 050179 944518	NOV 2007	06/02/2006	Tesco
BZ24	Smarties cookies	Nestlé	250 g	None given	None given	0 288300 000962	Display until 8 Feb	06/02/2006	Tesco
BZ25	Leek & potato soup	New Covent Garden Food Co	600 g	None given	L/5639 11:56	5 060045 370303	19/02/06	06/02/2006	Tesco
BZ26	Pure fruit smoothie mangoes and passion fruits	innocent™	250 ml	None given	(C)	5 038862 340106	18 FEB	06/02/2006	Tesco
BZ27	Mochalatte milk	Tesco Finest	330 ml	UK	(FLAV2(00:21	5 000358 525786	12 FEB	06/02/2006	Tesco
BZ28	Southern fried wrap	Tesco	190 g	UK	None given	0304 2939	08 FEB	06/02/2006	Tesco
BZ29	Micro chicken nuggets	M°Cain	115 g	None given	5354 14:15B	5 010228 016108	SEP 2006	06/02/2006	Tesco
BZ30	4 Quorn burgers	Quorn	200 g	UK	1153220002	5 019503 001327	FEB 07	06/02/2006	Tesco
BZ31	Custard	Marks & Spencer	500 g	UK	B 15:31	M 0162 005 S	16 FEB	07/02/2006	Marks & Spencer
BZ32	Chunky chocolate flapjack	Marks & Spencer	80 g	UK	6018	M 0421 522 S	09 FEB 06	07/02/2006	Marks & Spencer
BZ33	Chicken & stuffing sandwich	Marks & Spencer	185 g	Made in the UK with Marks & Spencer assured chicken from farms in the UK and EU	1440L3	M 0380 034 S	08FEB	07/02/2006	Marks & Spencer
BZ34	4 Marlborough buns	Marks & Spencer	255 g	UK	SEB 1	M 0338 790 S	09 FEB	07/02/2006	Marks & Spencer
BZ35	Profiterole dessert	Marks & Spencer	111 g	UK	BK	M 0098 762 S	11FEB	07/02/2006	Marks & Spencer
BZ36	Strawberry & vanilla smoothie	Marks & Spencer count on us...™	250 ml	UK	None given	M 0474 269 S	12 FEB	07/02/2006	Marks & Spencer

Code	Product	Brand	Size / Product weight	Country of origin	Batch code	Barcode	Best-before-date	Date of purchase	Retail Outlet
BZ37	Quiche Lorraine	Marks & Spencer	170 g	Made in the UK with Marks & Spencer assured pork from farms in the EU	08:30	M 0159 616 S	11 FEB	07/02/2006	Marks & Spencer
BZ38	Tomatoes	Marks & Spencer	390 g	Spain	4511B	M 0900 140 S	11 FEB	07/02/2006	Marks & Spencer
BZ39	Spicy red lentil & tomato soup	Marks & Spencer	600 g	UK	None given	M 0220 552 S	14 Feb	07/02/2006	Marks & Spencer
BZ40	Haddock Cumberland pie	Marks & Spencer	300 g	Made in the UK with haddock caught in the N. E. Atlantic	08:12	M 0212 434 S	14 FEB	07/02/2006	Marks & Spencer
BZ41	2 Chicken in breadcrumbs	Birds Eye	200 g	None given	L521502QA124	5 000116 036646	11 2006	13/02/2006	Somerfield
BZ42	4 Vegetable grills	Dalepak	340 g	None given	5312D 03:45	5 010333 006728	MAY 2007	13/02/2006	Somerfield
BZ43	10 Cod fish fingers	Somerfield	300 g	UK	15:29 L5311 A	2900 8001	APR 2007	13/02/2006	Somerfield
BZ44	California raisins sun dried	Sun Drop Rozijnen	126 g	Packed in California U.S.A.	11:39 05137 D	8 712996 102003	17/11/2006	13/02/2006	Somerfield
BZ45	Mini eggs	Cadbury	120 g	None given	L5091	5 000201 487995	07 2006	13/02/2006	Somerfield
BZ46	Flame grilled turkey	Somerfield	140 g	Produce of more than one country. Prepared, cooked and packed in the UK	None given	2905 8365	23 FEB	13/02/2006	Somerfield
BZ 47	Golden breadcrumbs	Goldenfry	227 g	None given	6026 0641	5 010105 831008	JAN07	13/02/2006	Somerfield
BZ 48	Egg pasta lasagne	Napolina	375 g	Italy	L7 5214 23:48	5 000232 818751	02.02.2007	13/02/2006	Somerfield
BZ49	Pitted green olives with herbs and vinegar	Crespo	110 g	Morocco	SQ L 189T L4/6 CAL:22/25 08:08	3 076820 450056	8/7/07	13/02/2006	Somerfield

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BZ50	Battenberg	Mr Kipling	230 g	None given	032A1	5 000221 001225	08 MAR	13/02/2006	Somerfield
BZ51	Roast beef in gravy	Birds Eye	227 g	UK	L525511:01C918	8 722700 019312	03 2007	13/02/2006	Co-op
BZ52	6 Crumpets	Co-op	330 g	UK	X73	5 000128 580847	14 FEB	13/02/2006	Co-op
BZ53	6 All butter Viennese whirls	Co-op	180 g	UK	B1 6034	5 000128 686785	17 MAR 06	13/02/2006	Co-op
BZ54	Mashed potato	Co-op	400 g	UK	BU3L2 11:26	5 000128 691581	14FEB	13/02/2006	Co-op
BZ55	Milk chocolate digestives	M ^o Vitie's	250 g	UK	HC1 02:05	5 000168 079141	16 09 06	13/02/2006	Co-op
BZ56	Maltesers	None given	146 g	None given	UB2	5 000159 016247	13-08-06	13/02/2006	Co-op
BZ57	Cooked beetroot	Co-op	250 g	Made in UK using beetroot from various countries	M005	5 000128 435680	20 FEB	13/02/2006	Co-op
BZ58	Raspberry jelly	Hartley's	135 g	None given	L5322	5 000354 160882	NOV 2006	13/02/2006	Co-op
BZ59	Ribena	Ribena	288 ml	None given	505C 19:44B	5 000134 043930	DEC 2006	13/02/2006	Co-op
BZ60	Rich fruit cake	Co-op	425 g	Made in UK using Greek or Turkish sultanas and EU butter and Glacé cherries	L5334A	5 000128 686761	30 MAR 06	13/02/2006	Co-op
BZ61	10 Pappadums plain	Patak's	100 g	India	6012 1112	5 011308 953009	12.07.07	13/02/2006	Asda
BZ62	Easy cook long grain white rice	Asda organic	500 g	Italy	MCR 5353 12.12	W 2114 0846 G	DEC 2006	13/02/2006	Asda
BZ63	6 Plain pancakes	Asda	375 g	UK	9575	W 2751 1725 G	20.02.06	13/02/2006	Asda
BZ64	Pepperoni stonebaked pizza	Asda Good for you!	314 g	UK	50X3 15:22	5 050854 328589 G	16FEB	13/02/2006	Asda
BZ65	All-bran original	Kellogg's	375 g	None given	L3 22:24	5 000127 140196	18/12/06	16/02/2006	Londis
BZ66	Icing sugar	Tate & Lyle	500 g	None given	10160033	5 010115 911714	None given	16/02/2006	Londis
BZ67	Loose tea	PG Tips	125 g	None given	5294T137 15:30	5 000118 001178	MAR 07	16/02/2006	Londis
BZ68	5 Cherry Bakewells	Bobby's	500 g	None given	2A	5 015282 119284	20 MAR 06	16/02/2006	Londis
BZ69	Raspberry cheesecake	Boots	97 g	UK	042	5 045094 815661	19.02.06	16/02/2006	Boots
BZ70	Caramel shortcake	Boots	65 g	UK	(30B)	5 045094 824823	06 MAR 2006	16/02/2006	Boots
BZ71	Mushrooms	Spar	227 g	UK	0802 A11553	5 023282 003168	None given	16/02/2006	Spar

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BZ72	6 Bramley apple pies	Spar	330 g	UK	6020D* 23:47	5 010358 090542	17/02/06	16/02/2006	Spar
BZ73	Cornflour	Brown & Polson	250 g	None given	L504909 14:45	5 000354 880155	02/2007	16/02/2006	Spar
BZ74	Weetabix	Weetabix	225 g	England	5349 08:07 E	5 010029 000504	DEC 06	16/02/2006	Spar
BZ75	Fruity Smarties	Nestlé	45 g	None given	532803583	5024 9664	11.2006	16/02/2006	Spar
BZ76	3 Cornish pasties	Abbotsford	460 g	UK	None given	5 021490 982442	17 FEB 06	16/02/2006	Netto
BZ77	Mature white cheddar	Netto	222 g	UK	KA026 4E	5 021490 960174	01 APR 06	16/02/2006	Netto
BZ78	Premium roast beef	The Cooked Meat Company	100 g	None given	None given	5 021490 920246	25 FEB	16/02/2006	Netto
BZ79	Cheese & onion quiche	Tindale & Stanton	360 g	U.K.	None given	5 015105 001512	18 FEB 06	16/02/2006	Netto
BZ80	Rose & lemon Turkish delight	Pasha	250 g	China	5278 1	5 011555 015352	NOV 07	16/02/2006	Netto
BZ81	8 Wholemeal pittas	Marks & Spencer	480 g	UK	B4G 08:44 6048	M 0401 456 S	24FEB06	20/02/2006	Marks & Spencer
BZ82	Wheaten crackers	Marks & Spencer	150 g	Netherlands	3B0404:44	M 0745 062 S	20-06-2006	20/02/2006	Marks & Spencer
BZ83	Goat's cheese bites	Marks & Spencer	100 g	Holland	AE	M 0334 709 S	21-03-06	20/02/2006	Marks & Spencer
BZ84	15 Cheese and garlic bites	Marks & Spencer	170 g	UK	H22C	M 0800 983 S	22 FEB	20/02/2006	Marks & Spencer
BZ85	Mange tout	Marks & Spencer	200 g	Guatemala	4848S	M 0280 761 S	21 FEB	20/02/2006	Marks & Spencer
BZ86	4 Crispy pancakes	Ross	235 g	Ireland	5346 15:09	5 011003 012919	DEC 2006	20/02/2006	Sainsbury's
BZ87	Bacon & cheese quiche	Sainsbury's basics	330 g	UK	12:14	0138 9852	21 FEB	20/02/2006	Sainsbury's
BZ88	Party bites 12 mini quiche selection	Sainsbury's	250 g	Produced in the UK with bacon from EU pork	07:13 B03A 08:03	0123 2646	23 FEB	20/02/2006	Sainsbury's
BZ89	Scottish steak pie	Sainsbury's Taste the difference	250 g	Produced in the UK from Scotch beef	17:40 003 B16	0123 1489	26 FEB	20/02/2006	Sainsbury's
BZ90	Strawberry mousse	Onken	150 g	None given	B01 08:00	4 023600 000092	04.03.06	20/02/2006	Sainsbury's
BZ91	5 Quorn satay sticks	Quorn	180 g	Holland	396031 104930	5 019503 010619	02-MRT-06	20/02/2006	Sainsbury's
BZ92	Micro sausages	Wall's	275 g	None given	6041E 08:21	5 000187 100093	25 FEB 06	20/02/2006	Sainsbury's
BZ93	Freshly squeezed orange juice	Sainsbury's Taste the Difference	250 ml	UK	None given	0127 6886	01 MAR	20/02/2006	Sainsbury's

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BZ94	4 Cod fish cakes	Young's	198 g	None given	AA 6016Q	5 000205 027296	JUL 2007	20/02/2006	Sainsbury's
BZ95	Citrus kick cous cous	Ainsley Harriott	200 g	UK	6032 SM	5 021476 000863	FEB 2007	20/02/2006	Sainsbury's
BZ96	Tomato & chicken rice	Kiddylicious	200 g	UK	21:45 532	5 060040 250310	MAY 2007	21/02/2006	Tesco
BZ97	Toad in the hole	Aunt Bessie's	190 g	None given	FL6011	5 000227 991148	JAN 07	21/02/2006	Tesco
BZ98	Micro snacks 2 hot dogs	Tesco	180 g	UK	017 778 17:21	5 000358 597103	JAN 07	21/02/2006	Tesco
BZ99	Skittles gum	None given	25 g	None given	CZ 6B2	5 000159 356732	14/10/06	21/02/2006	Tesco
BZ100	Gravy powder	Bisto	227 g	None given	None given	5 010024 101572	JUN 07	21/02/2006	Tesco
BZ101	Instant hot oat cereal	Tesco	500 g	UK	6025 01:25 1	5 000119 114105	25/01/2007	21/02/2006	Tesco
BZ102	Smarties mini eggs	Nestlé	136 g	None given	53281012 10:00	5025 1476	01/11/2006	21/02/2006	Tesco
BZ103	Candy sticks	None given	None given	USA	None given	5 016002 000820	Aug 2008	21/02/2006	Tesco
BZ104	Egg custard filling	Green's	54 g	UK	5341	5 010142 301601	DEC 2006	21/02/2006	Tesco
BZ105	Dairy free alternative to single cream	Alpro soya	250 ml	EU	J440401:48	5 411188 511328	31.07.2006	21/02/2006	Tesco
BZ106	6 Deep ring crumpets	Somerfield	328 g	UK	X73	5 000192 264926	24 FEB	21/02/2006	Somerfield
BZ107	Cheese & onion, tuna & cucumber and egg mayonnaise sandwiches	Somerfield	None given	UK	None given	2900 7936	22 FEB	21/02/2006	Somerfield
BZ108	Self raising flour	M ^c Dougalls	500 g	None given	6009 08:55 RL	5 010024 113018	OCT 2006	21/02/2006	Somerfield
BZ109	Basil	Schwartz	10 g	Packed in EU	L5277A	5 000225 024565	10.2008	21/02/2006	Somerfield
BZ110	Instant mashed potato mix	Somerfield	225 g	E.U.	L5363A3501	5 000192 156573	SEP 2006	21/02/2006	Somerfield
BZ111	Cornflakes	Kellogg's	250 g	None given	04 16:51 MC	5 000127 010093	13 10 06	21/02/2006	Somerfield
BZ112	Chinese chicken noodle Cup a Soup extra	Batchelors	26 g	None given	6005AR 12:57	5 000175 408941	DEC 07	21/02/2006	Somerfield
BZ113	Savoury white sauce	Colman's	25 g	None given	5312 ND 2 03:04	5 000147 025275	MAY07	21/02/2006	Somerfield
BZ114	Orange flavour jelly	Somerfield	135 g	UK	5244	2900 8094	DEC 2006	21/02/2006	Somerfield
BZ115	Green tea	Jacksons of Piccadilly	50 g	None given	L6018C 00:21	7 32217 00114 2	01/2009	21/02/2006	Somerfield
BZ116	Oatcakes	Nairn's	250 g	Scotland	0326PD	0 61232 20029 3	23 JUL 2006	23/02/2006	Budgens

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BZ117	Cadbury fingers	Cadbury	150 g	UK	L5277C	5 000183 948101	02 07 06	23/02/2006	Budgens
BZ118	Whole milk	Spar	500 ml	None given	[2]MN002M 06:40	5 010358 092799	27 FEB	23/02/2006	Spar
BZ119	Granulated sugar	Silver spoon	500 g	None given	10101 27	5 010067 332186	None given	23/02/2006	Spar
BZ120	Matchmakers	Nestlé	151 g	None given	53131012:10.05	5 000426 133592	01 NOV 06	23/02/2006	Spar
BZ121	Vanilla ice cream roll	Spar	250 g	None given	V3 T5319G 09.26	5010358 099408	15.05.07	23/02/2006	Spar
BZ122	Original Pringles	Pringles	50 g	Belgium	L 5280275540 0347	0 037000 320807	01/2007	23/02/2006	Spar
BZ123	Red Leicester cheese	Lye Cross Farm	245 g	UK	1011035	5 027632 000555	9 APR	26/02/2006	The Post Box
BZ124	Organic Glamorgan sausages	Cauldron	165 g	None given	310702	5 013683 102164	20 MAR	26/02/2006	The Post Box
BZ125	Extra lean beef steak mince	Iceland	500 g	UK	60 605309 121970 12:05 03	5 010482 316556	02 MAR	27/02/2006	Iceland
BZ126	Unsmoked bacon	Danepak	400g	Denmark	A	5 010155 212826	24 MAR	27/02/2006	Iceland
BZ127	Cooked hot & spicy chicken breast strips	Sun Valley	200g	Manufactured in Ireland. Produce of Thailand or Brazil	6054P12752	5 012711 421055	05 MAR 06	27/02/2006	Iceland
BZ128	Polony cooked pork meat sausage	Iceland	113g	Pork - Product of Belgium, Holland or Denmark. Produced in Belgium	100212	5 010482 283834	23 MAR	27/02/2006	Iceland
BZ129	Double chocolate sponge puddings	Weight Watchers from Heinz	145 g	England	SDP6038	5 390003 007201	FEB2007	27/02/2006	Iceland
BZ130	Eclairs	Weight Watchers from Heinz	180 g	Belgium	L7G05-06 07:10	5 390003 005559	05/07	27/02/2006	Iceland
BZ131	2 Doner kebabs	Snacksters	320 g	None given	018 439 09:31	5 023823 542040	JAN 07	27/02/2006	Iceland
BZ132	4 Mini chicken barbecue sizzlers	Iceland	194 g	U.K.	L6 016 14B	5 010482 386399	16 JAN 07	27/02/2006	Iceland

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BZ133	8 Sundried tomato sausages	Linda M ^c Cartney	280 g	None given	MFB 0336 17:42	5 000149 027703	AUG 07	27/02/2006	Iceland
BZ134	Pop-pop chicken	Iceland	225 g	U.K.	L6 038 11A	5 010482 275204	07 FEB 07	27/02/2006	Iceland
BZ135	12 Mini toad in the hole	Iceland	340 g	U.K.	L5327A08:23	5 010482 290191	23NOV 06	27/02/2006	Iceland
BZ136	6 Fish cakes	Young's	300 g	None given	AB 6009K	5 000205 024141	JUL 2007	27/02/2006	Iceland
BZ137	6 Pork faggots	Mr Brain's	564 g	None given	6004E 11:23	5 037780 511339	APR 07	27/02/2006	Iceland
BZ138	Smoked Scottish haddock fillets with butter	Young's	170 g	North East Atlantic	6016	5 000205 027975	JAN 07	27/02/2006	Iceland
BZ139	4 Spicy bean quarter pounders	Dalepak	454 g	None given	6019D 17:24	5 010333 005936	JUL 2007	27/02/2006	Iceland
BZ140	Cadbury animals	Cadbury	200 g	U.K.	D	5 000183 031582	200806	01/03/2006	Kwik Save
BZ141	Parsley, thyme and lemon stuffing mix	Kwik Save	85 g	Packed in the UK	L5237A3103	5 000192 276486	AUG 2006	01/03/2006	Kwik Save
BZ142	Ready made follow-on milk	Cow & Gate	200 ml	EU	11:18:42 3B	8 712400 557931	11-06-06	01/03/2006	Kwik Save
BZ143	Jelly	Kwik Save	135 g	UK	5235	5 000192 275595	NOV 2006	01/03/2006	Kwik Save
BZ144	Snack soup	Weight Watchers from Heinz	26 g	EU	64 E 06 5	5 000157 027795	04 2006	01/03/2006	Kwik Save
BZ145	Profiteroles	Bonta' Divina	450 g	Italy	A1	8 003938 000595	17 MAR	01/03/2006	Kwik Save
BZ146	Gravy granules	Kwik Save	200 g	UK	6004 13:37	5 000192 276455	MAR 07	01/03/2006	Kwik Save
BZ147	Lasagne	Kwik Save	250 g	Italy	L5289 - CN1	5 000192 272792	OCT 2007	01/03/2006	Kwik Save
BZ148	French sandwich	Lyons	220 g	None given	039AK	5 010033 012692	22 MAR	01/03/2006	Kwik Save
BZ149	Bratwurst sausage	Deli Continental	540 g	None given	4P56492	2500 1822	16.03.06	06/03/2006	Aldi
BZ150	Chorizo regio	Argal	100 g	Spain	14L1116	8 410764 074124	21-05-06	06/03/2006	Aldi
BZ151	Ready to eat cooked chicken tikka breast pieces	Tulip	200 g	None given	Line 2 11:57 061	5 020760 991870	16 MAR	06/03/2006	Aldi
BZ152	Sliced turkey breast	Kupfer	100 g	None given	2S	2506 2021	17.03.06	06/03/2006	Aldi
BZ153	2 Triple cheese pizza snacks	Chicago Town	230 g	E.U.	L5270/073/ 11:03 D	5 019312 874952	30.09.06	06/03/2006	Morrisons
BZ154	Hotpops southern fried	Bernard Matthews	120 g	None given	L6ZBM	5 010236 060407	OCT 2006	06/03/2006	Morrisons
BZ155	10 Fish fingers	Sea Shanty	250 g	None given	15:43 L6041 B	5 000205 029269	AUG 2007	06/03/2006	Morrisons
BZ156	10 Cod fish fingers	Morrisons	300 g	None given	A L6027 14:53	5 010251 033899	JAN 2007	06/03/2006	Morrisons

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BZ157	Chippy chips	M°Cain	180 g	None given	P20012006 11:52	5 010228 078076	01 2007	06/03/2006	Morrisons
BZ158	Beef lasagne	Morrisons eat smart	400 g	None given	6006 20:18	2 313832 400992	JAN 2007	06/03/2006	Morrisons
BZ159	Organic mixed bean chilli	Simply organic pure & pronto	400 g	None given	03033	5 035280 010048 (on packaging) 2 312421 301696 (on sticker)	19 MAR 06	06/03/2006	Morrisons
BZ160	Traditional Cornish cream tea	W. C. Rowe	236 g	Cornwall (UK)	None given	5 018028 080602	9 MAR 2006	06/03/2006	Morrisons
BZ161	2 Tiramisu	Morrisons	2 x 100 g	None given	A2 12:02	2 313619 701298	06 APR	06/03/2006	Morrisons
BZ162	2 Leek & stilton tartlets	Morrisons	260 g	None given	L27 1345	2 307395 501494	11 MAR	06/03/2006	Morrisons
BZ163	Granor aux amandes	Bahlsen	100 g	Switzerland	5469	4 017100 236105	01.09.06	06/03/2006	Morrisons
BZ164	Puppodums	Sharwood's	94 g	India	6027	5 000197 571166	JUL 07	06/03/2006	Morrisons
BZ165	Wheat biscuits	Morrisons	450 g	UK	6044 07:19 P	5 010251 135050	13/02/2007	06/03/2006	Morrisons
BZ166	Egg & bacon brunch	Morrisons	400 g	None given	11:46 L5238	5 010251 171638	26 FEB 2007	06/03/2006	Morrisons
BZ167	Original gravy mix	Supercook	250 g	None given	5357	5 000254 001179	JUN 07	06/03/2006	Morrisons
BZ168	Salsa tortillas	Old El Paso	326 g	EU	11:22 L31 2501115843	8 410076 470003	05/08/06	06/03/2006	Morrisons
BZ169	Spiderman candy sticks	None given	18 g	USA	None given	5 016002 014698	9/2008	06/03/2006	Morrisons
BZ170	Gravy salt	Comptons	128 g	None given	None given	5 011788 009128	121207	06/03/2006	Morrisons
BZ171	Poppets	Paynes	42 g	UK	B	5031 4997	25.01.07	06/03/2006	Morrisons
BZ172	Sugar free orange flavour jelly	Hartley's	26 g	None given	6005 12:21	5 000354 160950	JAN 2007	06/03/2006	Morrisons
BZ173	4 Fruit scones	Morrisons	None given	UK	None given	0 226353 000997	MAR 07	06/03/2006	Morrisons
BZ174	Plain flour	Morrisons	500 g	None given	11:35 B6048W	5 010251 034216	NOV 2006	06/03/2006	Morrisons
BZ175	Honey butter popping corn	Orville Redenbacher's	298 g	None given	5321 SL	5 010892 482339	05/2007	06/03/2006	Morrisons
BZ176	Plain chocolate	Sainsbury's basics	100 g	Israel	5327 M3 10:30	0114 5908	25.02.07	08/03/2006	Sainsbury's
BZ177	French cocoa dusted truffles	Sainsbury's	250 g	France	6006/6004C39	0124 9897	DECEMBER 2006	08/03/2006	Sainsbury's
BZ178	Knickerbocker glory sundae	Sainsbury's	130 g	UK	None given	0119 4258	10 MAR	08/03/2006	Sainsbury's

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BZ179	Blueberry Manhattan cheesecake müller corner	Müller	150 g	UK	None given	4 025500 117450	31MAR	08/03/2006	Sainsbury's
BZ180	Liqueur cherry and kirsch dessert yoghurt	Ann Forshaw's	150 g	None given	None given	5 016648 541039	23 MAR	08/03/2006	Sainsbury's
BZ181	American poppin' chicken	Asda	250 g	Thailand	6055 6	W 2728 8184 G	26 APR 2007	08/03/2006	Asda
BZ182	4 Sweetcorn & sweet potato waffles	Grassington's Food Co.	224 g	None given	53490 04:22	5 010333 007145	JUN 2007	08/03/2006	Asda
BZ183	6 Hot cross buns	Asda	360 g	UK	X12	W 2750 7568 G	10 MAR	08/03/2006	Asda
BZ184	Bangers & mash	Asda	400 g	UK	D 13:02 5340	W 2037 3535 G	05 SEP 06	08/03/2006	Asda
BZ185	4 Cod fishcakes with coriander and chilli	Asda	360 g	Scotland	L6018/4035	W 2764 1668 G	18/01/07	08/03/2006	Asda
BZ186	Sunny raisin	Whitworths	6 x 42.5 g	USA	L5335C	5 000234 044134	NOV 2006	08/03/2006	One Stop Convenience Stores
BZ187	4 Truly madly chocolatey muffins	The Fabulous Bakin' Boys	260 g	None given	11:41	5 028848 001213	17/04/06	08/03/2006	One Stop Convenience Stores
BZ188	4 Wholemeal rolls	Waitrose	256 g	UK	None given	5 000169 705469	12 MAR	09/03/2006	Waitrose
BZ189	Italian cherry tomato & mozzarella pizza	Waitrose perfectly balanced	220 g	Italy	LY 23 JO	5 000169 036570	09 2006	09/03/2006	Waitrose
BZ190	2 Tuna & red pepper fish cakes	Waitrose	170 g	Produced in the UK from tuna caught in the Indian Ocean	L6039N 0140	5 000169 017326	FEB 2007	09/03/2006	Waitrose
BZ191	Fruit & fibre	Waitrose	500 g	UK	53570944W 03:43	5 000169 181515	SEP 2006	09/03/2006	Waitrose
BZ192	Banana loaf cake	Waitrose	295 g	UK	C/6061 23:25	5 000169 061398	22 MAR	09/03/2006	Waitrose
BZ193	Edible wafer paper	Supercook	25 g	Holland	L4158	5 000254 001100	JUN 06	09/03/2006	Waitrose
BZ194	Unrefined golden icing cane sugar	Billington's	500 g	Mauritius	2036D18X	5 010651 003515	None given	09/03/2006	Waitrose
BZ195	Superfine self raising flour	Waitrose	500 g	UK	12:00 GWC 6034	5 000169 011287	03 NOV 06	09/03/2006	Waitrose
BZ196	Farmhouse cheddar & onion quiche	Waitrose	170 g	UK	2026K	5 000169 064566	16MAR	09/03/2006	Waitrose

Code	Product	Brand	Size / Product weight	Country of origin	Batch code	Barcode	Best-before-date	Date of purchase	Retail Outlet
BZ197	Pork pie with egg	Waitrose	440 g	Produced in the UK from British pork	None given	5 000169 061190	12 MAR	09/03/2006	Waitrose
BZ198	2 Mushroom, bacon & watercress tartlets	Waitrose bistro	240 g	UK	L3T1659	5 000169 008799	11 MAR	09/03/2006	Waitrose
BZ199	6 Maple pancakes	Waitrose	222 g	UK	None given	5 000169 073827	11 mar	09/03/2006	Waitrose
BZ200	Prawn crackers	Sharwood's	100 g	China	5255	5 000197 591485	SEPT 2007	09/03/2006	Waitrose
BZ201	Oatbran	Mornflake	500 g	None given	6034 15:29 JW2	5 010026 505910	03.02.07	09/03/2006	Waitrose
BZ202	Organic pure apple juice	Libby's	3 x 200 ml	None given	C36009 02:51	5 010663 801017	NOV06	09/03/2006	Waitrose
BZ203	Camargue red rice	Merchant Gourmet	375 g	France	5306 M	5 018095 129341	NOV 2007	09/03/2006	Waitrose
BZ204	Lasagne	Buitoni	250 g	None given	52780850W1 10 2005	8 000270 016727	10 2008	09/03/2006	Waitrose
BZ205	6 Finest Belgian chocolate sea shells	Guylian	65 g	Belgium	/07 L5158	5 410976 080428	10-09-06	09/03/2006	Waitrose
BZ206	Atlantic sea salt	Geo organics	250 g	Portugal	5/281	5 060005 460167	None given	09/03/2006	Waitrose
BZ207	Organic rosehip tea bags	Waitrose	40 g	UK	6037	5 000169 885680	AUG 2007	09/03/2006	Waitrose
BZ208	Lasagne	Happy Shopper	375 g	Italy	L4252 - CN1	5 011295 026649	SEP 2006	11/03/2006	Pricedown Superstores
BZ209	Fine cut, desiccated coconut	M ^c Dougalls	150 g	Produce of more than one country. Packed in the UK	L5196A800	5 035735 162995	JUL 2006	11/03/2006	Pricedown Superstores
BZ210	6 Vanilla cream eggs	Walkers	200 g	UK	4-ENAM 08:24	5 011555 024392 and 6 69765 12034 9	MAY 2006	11/03/2006	Pricedown Superstores
BZ211	Mature white cheddar	Lifestyle	200 g	UK	GG	5 013668 091674	29 MAY	11/03/2006	Malpas Convenience Store
BZ212	Semi-skimmed milk	The Welsh Dairy Golden Vale	500 ml	Wales	15:33 5CL	5 011055 800342	20 MAR	11/03/2006	Malpas Convenience Store

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BZ213	Rice snacks	Fantastic	100 g	Australia	A 5213 08:35	9 310155 956727	27/07/2006	11/03/2006	Malpas Convenience Store
BZ214	Original Alpen	Weetabix	375 g	England	5318E 05:50	5 010029 020021	AUG 06	11/03/2006	Queensfield Stores
BZ215	Pure orange juice	Londis	1 L	UK	21:14 R4	5 011406 070660	18 MAR	11/03/2006	Queensfield Stores
BZ216	Mediterranean pasta & tuna salad	Johnsons	225 g	None given	None given	5 060045 371553	17/03/06	11/03/2006	Bonjour
BZ217	Sweet and sour chicken & rice	All Good Things	450 g	UK	095 EC 05:51	5 024530 004777	25 MAR	11/03/2006	Bonjour
BZ218	Bacon bap	On the Run Sandwich Company	None given	None given	None given	5 010571 003053	12/03/06	11/03/2006	On the Run
BZ219	Cottage pie	Pro-Cuisine	500 g	None given	60463 18:40	5 032824 002859	03APR	11/03/2006	On the Run
BZ220	Farmhouse fruit cake	Bakers Delight	None given	None given	60711/071	5 026764 131045	14 MAY 06	11/03/2006	Mace Foodstore
BZ221	Smarties	Nestlé	None given	None given	60051012 11:25	5024 9466	01/01/07	11/03/2006	Mace Foodstore
BZ222	4 Strawberry & apple Viennese	Hoppers Farmhouse Bakeries	208 g	None given	6039D 11:29	5 012813 103149	03/05/06	11/03/2006	West End Food Stores
BZ223	Mexican chicken tortilla wrap	Ginsters	229 g	None given	30	5 010718 508014	13 MAR	11/03/2006	Reading MOTO Service Station
BZ224	Cornflour	Supercook	250 g	None given	6019 12:58	5 000254 003159	JUL 07	11/03/2006	Balfour Post Office
BZ225	Chocolate Viennese whirls	Border	150 g	Scotland	1E11:56	5 012036 003004	28 DEC 06	11/03/2006	Haynes Village Store and Post Office
BZ226	Dried mixed fruit	Whitworths	375 g	Produce of more than one country	L5290A3402	5 000234 002219	OCT 2006	11/03/2006	Haynes Village Store and Post Office
BZ227	Fruit gums	Rowntrees	140 g	None given	52441011	5 000189 508729	01/09/2006	11/03/2006	Haynes Village Store and Post Office
BZ228	6 Country slices	Mr Kipling	192 g	None given	047 E22 19:03	5 000221 001089	16 MAR	11/03/2006	Balfour Post Office

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BZ229	Skimmed milk UHT	Express	500 ml	None given	E 18:15 CV001	5 000181 025378	14APR06	11/03/2006	One Stop Convenience Stores
BZ230	Tea bags	One Stop	125 g	U.K.	5315	5 019180 032539	MAY 2007	11/03/2006	One Stop Convenience Stores
BZ231	Sugar free mints	Trebor	None given	Italy	L5168SV	5020 1983	06 2006	11/03/2006	One Stop Convenience Stores
BZ232	Primula dip sour cream & chive	Primula	170 g	None given	20:00 S/C/C A	0 74472 70301 1	05/06/06	11/03/2006	The Newsagents
BZ233	Raspberry sponge sandwich	Cakes for the Connoisseur	None given	UK	17:49 6048A	5 013387 910898	07/04/06	11/03/2006	The Newsagents
BZ234	A mix for farmhouse style dumplings	Goldenfry	142 g	None given	5313	5 010105 133010	NOV 2006	11/03/2006	Sundal Stores
BZ235	Table salt	Best Buy	500 g	None given	5335	5 019996 051618	None given	11/03/2006	Sundal Stores
BZ236	Red split lentils	Whitworths	250 g	Turkey	L5091A830	5 000234 024853	JAN 2007	11/03/2006	Best One
BZ237	Double Gloucester cheese	Best-in	200 g	None given	FG	5 027876 058930	23 MAY	11/03/2006	Best One
BZ238	Cookies choc chip	Cadbury	150 g	U.K.	6040	5 000183 034965	09-11-06	11/03/2006	P & A News
BZ239	Plain flour	Happy Shopper	500 g	None given	WF1 6039 19:04	5 011295 082492	OCT 2006	11/03/2006	P & A News
BZ240	Sample excluded								
BZ241	Dried onions	Whitworths	40 g	Product of more than one country	L5259A3201	5 000234 058322	JUNE 2007	11/03/2006	H&S Fairley
BZ242	Sage & onion stuffing mix	Happy Shopper	93.5 g	None given	L5308B3101	5 011295 184226	MAR 2007	11/03/2006	H&S Fairley
BZ243	Fruit-tella cream	Fruit-tella	37 g	None given	ZT 172 J	8071 1896	06-2007	15/03/2006	Douglas News
BZ244	Semi-skimmed milk	Dairy Farmers of Britain	500 ml	Britain	GH005 F1 22:45 P	5 011129 000111	22 MAR	15/03/2006	Douglas News
BZ245	All butter shortbread fingers	Royal Edinburgh	250 g	Scotland	L5243	0 72417 09136 0	02SEP06	15/03/2006	Forbuoys
BZ246	Mini jawbreaker	Zed Candy	39 g	Ireland	L05262	5 011061 151742	None given	15/03/2006	Forbuoys
BZ247	Fruit & fibre	Little Man	500 g	UK	5353C 23:15	2001 8214	SEP 06	15/03/2006	Lidl
BZ248	Strawberry crisp	Highgate Fayre	500 g	None given	011	2006 0817	131206	15/03/2006	Lidl
BZ249	8 Crumpets	Rowan Hill Bakery	276 g	None given	LH4 070 19:39	2014 2292	18 MAR	15/03/2006	Lidl
BZ250	Spaghetti alla Napoli	Combino	634 g	EU	L339 3020	2003 5648	05 12 06	15/03/2006	Lidl

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BZ251	American crisp	Mornflake	500 g	None given	6012 10:33 JW2	5 010026 506931	12.07.06	15/03/2006	Home Bargains
BZ252	Hazelnut cookies	Henry Baker Patisserie Gebäck	200 g	EU	None given	8 710998 510123	01012007	15/03/2006	Home Bargains
BZ253	Crunchy choco muesli	Hahne	375 g	None given	None given	4 008569 031271	22.06.06	15/03/2006	Home Bargains
BZ254	Vanilla fudge	Chambers Candy Co.	170 g	UK	L5998/5067	5 023050 521962	APR 2006	15/03/2006	Home Bargains
BZ255	Viennetta	Wall's	320 g	None given	L5292CC020 13:41	8 000920 200025	10/2007	15/03/2006	Iceland
BZ256	20 Minced cod fish fingers	Iceland	500 g	None given	07:36 L6013 C	5 010482 379421	13/JAN/2007	15/03/2006	Iceland
BZ257	Chicken in black bean sauce	Iceland	400 g	U.K.	L6031	5 010482 388171	31 JUL 07	15/03/2006	Iceland
BZ258	Corned beef hash	Iceland	500 g	U.K.	04:12 6042	5 010482 381202	11 FEB 07	15/03/2006	Iceland
BZ259	Tropical fruit juice drink	Iceland	1 L	U.K.	R1 14:43	5 010482 368814	17 APR	15/03/2006	Iceland
BZ260	Honey loops	Kellogg's	375 g	None given	L 12:22 19 BR	5 000127 329980	13 12 2006	15/03/2006	Iceland
BZ261	Yorkshire tea	Taylor's of Harrogate	125 g	Blended and packed in Yorkshire	5346 448 20:28	5 010357 112009	MAY 2007	15/03/2006	Fulford Express
BZ262	Irmik original	Baktat	500 g	None given	E L319 05	8 690804 204319	15 11 2007	15/03/2006	Fulford Express
BZ263	Flat mushrooms	Nisa Today's Heritage	250 g	UK	NA	5010893873426	20 MAR 06	15/03/2006	Costcutter
BZ264	Raspberry flavour table cream	Symington's	99 g	None given	5222	5 000111 001724	AUG 07	15/03/2006	Costcutter
BZ265	Sausage roll	Bake & Bite	None given	None given	None given	5 060041 440345	None given	15/03/2006	Costcutter
BZ266	Lasagne	Nisa Today's Heritage	400 g	Packed in the EU	None given	5 010893 791775	23/03/06	15/03/2006	Costcutter
BZ267	Scott's porage oats	Scott's	1 kg	Milled in Scotland	350A 11:47 2T	5 000108 022176	30/12/06	15/03/2006	Pringles
BZ268	B.L.T salad sandwich	Esk side Bakery	None given	None given	None given	None given	16/03/06	15/03/2006	Pringles
BZ269	Quiche Lorraine	Edmond Foods	150 g	None given	None given	5 023512 001902	16 MAR 06	15/03/2006	R S McCoil
BZ270	All butter petticoat tails	Highland Maid	125 g	Scotland	None given	5 031504 705158	01 MAR 007	15/03/2006	Bookworld
BZ271	Edinburgh Castle rock	Ross's	85 g	Scotland	None given	5 014133 210019	090808	15/03/2006	Bookworld
BZ272	Date & walnut flapjack	Jordan Valley Wholefoods	None given	None given	None given	5 031119 001584	20/08/2006	15/03/2006	R S McCoil

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BZ273	Jacket potato with chilli con carne	Nisa Today's Heritage	340 g	Packed in the U.K.	None given	5 010893 790921	08APR	15/03/2006	Jacksons
BZ274	Penne Nicoise	Nisa Today's Heritage	400 g	U.K.	None given	5 010893 791430	27MAR	15/03/2006	Jacksons
BZ275	Rice crackles	Morrisons	440 g	None given	6055 0943 03:05	5 010251 050872	NOV 2006	15/03/2006	Morrisons
BZ276	Hot pockets	Maggi	250 g	France	60130804H1 09:54	3 033210 822060	01.2007	15/03/2006	Morrisons
BZ277	Mash topped chicken	Bisto	450 g	None given	6047D 07:44	5 010164 061903	FEB 2007	15/03/2006	Morrisons
BZ278	Goey toffee sundae	Morrisons	130 g	None given	None given	2 314080 500892	19 MAR	15/03/2006	Morrisons
BZ279	4 Double choc chip muffins	Morrisons	None given	None given	None given	0 222293 000998	19 MAR 06	15/03/2006	Morrisons
BZ280	Onion gravy granules	Morrisons	170 g	None given	6059 18:01	5 010251 128045	FEB07	15/03/2006	Morrisons
BZ281	Organic oats	Mornflake	750 g	UK	6067	5 010026 505354	MAR 07	15/03/2006	Morrisons
BZ282	Broccoli & cauliflower florets	Morrisons	0.296 kg	Spain/France	11.95 C	0 264684 000651	18MAR	15/03/2006	Morrisons
BZ283	6 Coconut tarts	Morrisons	180 g	None given	6060A3	0 275658 000591	7 APR 06	15/03/2006	Morrisons
BZ284	Chicken tikka naan	Morrisons eat smart	196 g	None given	None given	2 314905 901651	17 MAR	15/03/2006	Morrisons
BZ285	Farmhouse style paté	WeightWatchers	113 g	None given	062	5 015096 997238 (on packaging) 2 314765 701293 (on sticker)	01 MAY	15/03/2006	Morrisons
BZ286	2 Fresh cream slices	Morrisons	150 g	None given	None given	0 299033 000990	17 MAR	15/03/2006	Morrisons
BZ287	Cranberry select	Ocean Spray	1 L	None given	19:44 R1 6058	0 31200 45333 4	13 APR	15/03/2006	Morrisons
BZ288	Coco pops straws	Kellogg's	375 g	None given	20:26 HB1	5 050083 266928	15.10.2006	15/03/2006	Morrisons
BZ289	Bakewell tart	Pearl's	None given	None given	None given	5 017840 001185	05 06 06	16/03/2006	Hopwood S/Stn
BZ290	Chocolate dessert	Aunty's	2 x 110 g	Italy	None given	8061 1714	010906	16/03/2006	Hopwood S/Stn
BZ291	Cup soup vegetable with croutons	Crosse & Blackwell	116 g	UK	5270 19:34 33	5 050665 000667	MAR 2007	16/03/2006	Hopwood S/Stn
BZ292	Semi-skimmed milk	D.H.Tetlow & Sons	568 ml	None given	None given	None given	20 03 06	16/03/2006	Hopwood S/Stn
BZ293	Ready brek	Weetabix	250 g	England	5340 07:35	5 010029 013016	FEB07	16/03/2006	Queensway Superstore

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BZ294	3 Minute noodle lunch box	Blue Dragon	90 g	China	None given	5 010338 013837	14.04 2006	16/03/2006	Queensway Superstore
BZ295	Village salad	Attis	260 g	Greece	L/03615	5 014747 356301	27/06/2007	16/03/2006	Sainsbury's
BZ296	Chunky vegetable soup	Heinz	220 g	EU	152 A 301 5 09:28	5 000157 064554	11-2006	16/03/2006	Sainsbury's
BZ297	Panini	M°Cain	150 g	UK	6006 B 09:07	5 010228 069302	OCT 2006	16/03/2006	Sainsbury's
BZ298	4 Chicken burgers	Sainsbury's	227 g	Produced in the UK from Thai, EU and Brazilian chicken	L6 044 18A	0136 6570	JUL 07	16/03/2006	Sainsbury's
BZ299	Mini parsnips	Sainsbury's Taste the Difference	230 g	U.K.	M0249HP	0052 6937	17 MAR	16/03/2006	Sainsbury's
BZ300	4 Battered whitefish portions	Sainsbury's basics	400 g	UK	AA 5 299E	0122 4641	OCT 2006	16/03/2006	Sainsbury's
BZ301	Gravy granules	Sainsbury's basics	170 g	UK	5356 15:45	0138 6448	DEC06	16/03/2006	Sainsbury's
BZ302	Fresh creamy cheese sauce	Sainsbury's kids	150 g	UK	08:15	0129 6914	27 MAR 06	16/03/2006	Sainsbury's
BZ303	Organic muesli	Pertwood Organic Farm	750 g	None given	6066 RWD	5 038695 102759	MARCH 2007	16/03/2006	Sainsbury's
BZ304	Super high fibre	Dorset cereals	730 g	None given	S6061	5 018357 003044	MAR 2007	16/03/2006	Sainsbury's
BZ305	Minced beef hotpot	Sainsbury's	250 g	UK	None given	0124 7527	20 MAR	16/03/2006	Sainsbury's
BZ306	Gravy powder	Sainsbury's	454 g	UK	6018	0010 1578	JUL 07	16/03/2006	Sainsbury's
BZ307	Gouda cheese crispy thins	Sainsbury's	100 g	Netherlands	None given	0126 1752	02.11.06	16/03/2006	Sainsbury's
BZ308	Italian style stonebaked pizza pepperoni	Stateside Foods	335 g	None given	03V3 17:31	5 030323 004770	22MAR	16/03/2006	Sainsbury's
BZ309	Wholemeal batch bread	Sainsbury's	None given	None given	0768 12	0002 9360	18 Mar	16/03/2006	Sainsbury's
BZ310	Animal shaped organic biscuits	Organix Goodies	125 g	Germany	L343A	5 024121 852305	31082006	16/03/2006	Sainsbury's
BZ311	Noodle box	Sharwood's	350 g	Thailand	5286 2 22	5 000197 157544	SEP 2006	16/03/2006	Sainsbury's
BZ312	Cathedral city dip & go!	Cathedral City	3 x 60 g	None given	None given	5 000295 125506	04 MAY 06	16/03/2006	Sainsbury's
BZ313	Custard doughnuts	Sainsbury's	None given	UK	6024 09	0103 1287	17 Mar	16/03/2006	Sainsbury's
BZ314	6 Iced buns	Sainsbury's	240 g	UK	None given	0123 1946	17 MAR	16/03/2006	Sainsbury's

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BZ315	Strawberry and apple tart	Asda	None given	UK	GBE 6044D 15:05	0 235160 000847	17-03-06	16/03/2006	Asda
BZ316	Apple pie	Asda	None given	None given	None given	5 050854 203954 G	20 MAR 06	16/03/2006	Asda
BZ317	French onion style cup soup with croutons	Asda	72 g	UK	6038 19:33 33	W 2742 9693 G	JUL 2007	16/03/2006	Asda
BZ318	Houmous	Asda Good for you!	170 g	UK	L1 12:06	W 2039 5322 G	20 MAR	16/03/2006	Asda
BZ319	Creamy chicken & bacon pasta	Asda	300 g	UK	None given	W 2756 6046 G	25MAR	16/03/2006	Asda
BZ320	Pitta & houmous snack pack	Asda Good for you!	105 g	UK	None given	W 2769 0789 G	17 MAR	16/03/2006	Asda
BZ321	Instant thickening granules	M ^c Dougalls	170 g	None given	5355 22:55	5 010024 104580	NOV 06	16/03/2006	Asda
BZ322	Gravy granules for meat	Asda	170 g	UK	6055 06:50	W 2110 3865 G	FEB07	16/03/2006	Asda
BZ323	Cheese & bacon quiche	Asda smart price	330 g	UK	19:02	W 2036 2416 G	22 MAR	16/03/2006	Asda
BZ324	Breaded mozzarella with a tomato & onion relish	Asda	190 g	UK	None given	W 2718 1621 G	06 APR 06	16/03/2006	Asda
BZ325	Boursin light	Boursin	125 g	France	22:21 054	3 175460 000239	18.05.2006	16/03/2006	Asda
BZ326	Country crisp wild about berries	Jordans	500 g	None given	6035 DE 06:43	5 010477 317735	01 11 2006	16/03/2006	Asda
BZ327	Honey seven grains	Kashi	330 g	None given	L 02:17 10 BR	5 050083 245251	31 01 2007	16/03/2006	Asda
BZ328	Ready to steam mustard chicken	Asda Good for you!	400 g	Republic of Ireland	60332 13:37	W 2768 5112 G	02 FEB 2007	16/03/2006	Asda
BZ329	Easy cook couscous	Sammy's	250 g	None given	None given	5 034444 104036	17 07 07	16/03/2006	Asda
BZ330	Oat hoops	Quaker	480 g	None given	011 C 05:22 5Q	5 000108 028659	141006	16/03/2006	Asda
BZ331	Fries to go	M ^c Cain	3 x 90 g	None given	C22 02 2006 2 09:28	5 010228 012933	02 2007	16/03/2006	Asda
BZ332	Crusty cobs	Asda	None given	None given	None given	0 231370 000424	17-03-06	16/03/2006	Asda
BZ333	4 Blueberry muffins	Asda	300 g	UK	None given	5 050854 344756 G	20 MAR	16/03/2006	Asda
BZ334	Deep pan pepperoni pizza	Asda	345 g	UK	None given	W 2753 3383 G	18 MAR	16/03/2006	Asda
BZ335	2 Cheese omelettes	Asda	240 g	UK	L6045	W 2044 3849 G	30NOV2006	16/03/2006	Asda
BZ336	30 Mini rostis	Tesco	500 g	U.K.	B5298B1	5 010204 251295	OCT 2006	16/03/2006	Tesco
BZ337	Flips	Findus	275 g	None given	L:6021LA 11:20	5 050093 303002	07 2007	16/03/2006	Tesco

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BZ338	Saint Agur	Saint Agur	150 g	France	L060	3 341502 000110	16 APR 06	16/03/2006	Tesco
BZ339	Refreshers cup cakes	Bassett's & Beyond	240 g	None given	065NH	5 000221 104049	10 APR	16/03/2006	Tesco
BZ340	12 Mini vol-au-vent selection	Tesco to share...	200 g	U.K.	S	5 051008 820539	20MAR	16/03/2006	Tesco
BZ341	Tacos meal kit	Tesco	275 g	U.K.	06020	5 000358 229059	24/10/2006	16/03/2006	Tesco
BZ342	Grape-nuts	Kraft Foods	450 g	USA	L335C	5 000136 999778	DEC06	16/03/2006	Tesco
BZ343	Organic carrot cake	Respect	None given	UK	None given	5 023128 113969	29 MAR 2006	16/03/2006	Tesco
BZ344	Sample excluded								
BZ345	4 Large white baps	Tesco	None given	None given	None given	0 283694 000406	18. 3.06	16/03/2006	Tesco
BZ346	6 Strawberry iced fingers	Tesco	288 g	U.K.	None given	5 000358 805437	17 MAR	16/03/2006	Tesco
BZ347	Beef lasagne	Tesco	600 g	U.K.	6030 16:26	5 051008 647389	JAN 2007	16/03/2006	Tesco
BZ348	2 Omelettes cheese	Tesco	240 g	U.K.	L6044 12293	5 018374 537362	NOV 2006	16/03/2006	Tesco
BZ349	Creamy parsley fish bake	Young's	380 g	None given	None given	5 000205 028514	20 MAR	16/03/2006	Tesco
BZ350	2 Pork & apple burgers	Tesco	340 g	Ireland	00:14 6065	5 051008 727456	MAR2007	16/03/2006	Tesco
BZ351	Vegetarian 8 sausage rolls	Tesco	400 g	France	6024	5 000358 916874	JUL 2007	16/03/2006	Tesco
BZ352	Chocolate assortment	Tesco value	200 g	Germany	L354931	5 000358 943245	12.2006	16/03/2006	Tesco

Table 1b: Details of samples obtained in Phase 2

NA: not applicable.

Code	Product	Brand	Size / Product weight	Country of origin	Batch code	Barcode	Best-before-date	Date of purchase	Retail Outlet
BPL01	Wholegrain & white bread	Kingsmill	800 g	UK	GD1 5H 6	5 010092 260348	5 JUL	03/07/2006	Sainsbury's
BPL02	White bread	Sainsbury's basics	800 g	UK	GD9 6T 45	0104 8063	5 JUL	03/07/2006	Sainsbury's
BPL03	Sesame snaps	Sesame snaps	4 x 30 g	Poland	2	5 011424 500026	APR 2007	03/07/2006	Sainsbury's
BPL04	4 Pain au chocolat	Sainsbury's	232 g	UK	L5 C	0028 3311	05 JUL	03/07/2006	Sainsbury's
BPL05	Mexican style grated cheese	Old El Paso	200 g	EU	19:53 Line 20 13 06 06	5 000246 722983	08 AUG 06	03/07/2006	Sainsbury's
BPL06	6 Plain mini naan	Sainsbury's	300 g	UK	1 R 7 F 0 4 8	0107 3485	06 JUL	03/07/2006	Sainsbury's
BPL07	King prawns	Iceland	200 g	Farmed in Indonesia or Ecuador	10072922 082539	5 010482 231088	27/09/2006	03/07/2006	Iceland
BPL08	Garden peas	Iceland	680 g	None given	7 C6125 13:13	5 010482 387068	04 NOV 2007	03/07/2006	Iceland
BPL09	White chocolate buttons	A-2-Z	90 g	None given	LI 6129 - E	5 015027 109662	JAN 2007	03/07/2006	Iceland
BPL10	Mature grated white cheddar	Iceland	200 g	None given	Line 20 19:28 08 06 06	5 010482 377755	10 AUG 06	03/07/2006	Iceland
BPL11	Coleslaw	Iceland Good Choice	275 g	U.K.	None given	5 010482 386993	14 JUL	03/07/2006	Iceland
BPL12	Strawberry cheesecake	Nisa Today's Heritage	100 g	U.K.	None given	5 010893 720041	09 JUL	03/07/2006	Costcutter
BPL13	Spaghetti	Costcutter	500 g	Packed in the E.U.	04:26 L326038	5 019494 320018	FEB 2008	03/07/2006	Costcutter
BPL14	Jazzles white	Hannah's	100 g	U.K.	1156 11:01	5 021202 547785	END MAY/07	03/07/2006	Netto
BPL15	Grated mild cheddar	Adams	250 g	None given	06:27 L18	5 000165 053199	11 AUG	03/07/2006	Netto
BPL16	6 Tortilla wraps	Netto	330 g	UK	6179K	5 021490 828573	26 JUL 06	03/07/2006	Netto
BPL17	Dried plums	Morrisons	50 g	None given	26178/01	0 269687 000295	17 DEC 06	03/07/2006	Morrisons
BPL18	Goats milk yoghurt live	Delamere dairy	125 g	None given	None given	5 016860 008105	27 JUL	03/07/2006	Morrisons
BPL19	Grated mature white cheddar	Morrisons	200 g	None given	MT6169	5 010251 193944	30 JUL	03/07/2006	Morrisons
BPL20	Grated Emmental	Président	200 g	France	A 116 J Y12 AL 07:57	3 228023 910107	03.AUG.06	03/07/2006	Morrisons

Code	Product	Brand	Size / Product weight	Country of origin	Batch code	Barcode	Best-before-date	Date of purchase	Retail Outlet
BPL21	Egg conchigliette	Morrisons	250 g	None given	DS6105 3L.540	5 010251 174363	15APR.2008	03/07/2006	Morrisons
BPL22	Baby pearl potatoes	Morrisons	500 g	U.K.	FA2A52605	0 264141 000798	DISPLAY UNTIL 7th Jul	03/07/2006	Morrisons
BPL23	Pork pie	Vale of Mowbray	113 g	None given	None given	5090 0442	17 JUL	10/07/2006	Co-op
BPL24	Cut mixed peel	Co-op	100 g	Italy	05262	5 000128 110617	SEP 06	10/07/2006	Co-op
BPL25	Pine nuts	Co-op	100 g	China	L6128A9301	5 000128 595568	FEB 2007	10/07/2006	Co-op
BPL26	Grated mozzarella cheese	Co-op	250 g	Ireland	06:10 L19	5 000128 420150	18 AUG	10/07/2006	Co-op
BPL27	Porridge oats	Somerfield	1 kg	U.K.	09:02 6128 164 P6	5 000192 162024	MAY07	10/07/2006	Somerfield
BPL28	Radish	Somerfield	150 g	England	96024	5 000192 100132	JUL.11	10/07/2006	Somerfield
BPL29	Flapjack	Mr Kipling	75 g	None given	159 N	5022 1523	17 AUG	10/07/2006	Somerfield
BPL30	8 Fresh sausages skinless	Richmond	213 g	None given	16:04 2 19	5 000187 008238	15 JUL	10/07/2006	Somerfield
BPL31	Garlic baguette	Somerfield Makes Sense!	170 g	UK	None given	5 000192 280834	15 JUL	10/07/2006	Somerfield
BPL32	Southern fried chicken goujons	Somerfield	325 g	UK	L614702S	5 000192 215225	MAY 07	10/07/2006	Somerfield
BPL33	Greek style honey yoghurt	Somerfield	150 g	U.K.	None given	2905 1328	26 JUL	10/07/2006	Somerfield
BPL34	Mild cheddar grated cheese	Somerfield	200 g	Produce of more than one country	09:15 L19	5 000192 315475	08 AUG	10/07/2006	Somerfield
BPL35	Instant noodles chicken & mushroom flavour	Morrisons Bettabuy	79 g	None given	L6128/4/7	5 010251 128731	MAY/07	17/07/2006	Morrisons
BPL36	Beef & tomato flavour mini snack meal	Morrisons	32 g	None given	L6165/4/1	5 010251 140122	JUN 07	17/07/2006	Morrisons
BPL37	Light brown soft cane sugar	Whitworths	500 g	Packed in the U.K.	L0000050186	5 013026 088940	None given	17/07/2006	Morrisons
BPL38	Tasty Nice	Fox's	300 g	England	SE 1	5 010035 054843	03 02 07	17/07/2006	Morrisons
BPL39	Chicken sausages	Yarden	400 g	Israel	None given	5 018804 800042	25/10/06	18/07/2006	Waitrose
BPL40	Goats milk yoghurt	St Helen's Farm	125 g	None given	None given	5004 9752	25 JUL	18/07/2006	Waitrose
BPL41	Jumbo sausage roll	Waitrose	145 g	Produced in the UK from British pork	WE	5 000169 024652	23 JUL	18/07/2006	Waitrose
BPL42	Mature cheddar grated	Yeo Valley	200 g	None given	Line 20 05 06 06 11:03	5 036589 201984	31 JUL 06	18/07/2006	Waitrose

Code	Product	Brand	Size / Product weight	Country of origin	Batch code	Barcode	Best-before-date	Date of purchase	Retail Outlet
BPL43	Mature cheddar	Waitrose	250 g	UK	280606 20 19:56	5 000169 054550	27 AUG	18/07/2006	Waitrose
BPL44	A measure of chicken stock	Waitrose	500 ml	UK	6081 1AW 08:11	5 000169 064030	MAR 2007	18/07/2006	Waitrose
BPL45	Softer butter	Président	250 g	France	180A09h49 7	3 228021 920184	28 08 2006	18/07/2006	Waitrose
BPL46	Microwave basmati rice	Waitrose	250 g	UK	6123 23:39	5 000169 008430	MAR 2007	18/07/2006	Waitrose
BPL47	Macadamia and fruit bar	Eat Natural	50 g	UK	6188 088	5066 3590	MAR 07	18/07/2006	Waitrose
BPL48	Hand sliced runner beans	Waitrose	200 g	Kenya	J12/110 W	5 000169 057285	20 Jul	18/07/2006	Waitrose
BPL49	Long grain rice	Londis	500 g	Guyana	VT 6086 05:37	5 011406 148000	MAR2008	20/07/2006	Daves Supermarket Ltd
BPL50	Instant noodles curry flavour	Sanwa	85 g	Singapore	BZ51359086T 2R	8 888056 103713	30/10/2006	20/07/2006	Mace Express
BPL51	Table salt	Happy Shopper	250 g	None given	61238 08:08	5 011295 191279	None given	20/07/2006	Hockiliffe Stores Post Office
BPL52	Flapjack toffee flavour topping	Quorndon	110 g	None given	0707	5 027870 188008	30 NOV 06	20/07/2006	The Little Shop
BPL53	Hamburger buns	Quality Bakers	300 g	None given	W13	4 003587 070554	12.08.06	20/07/2006	Pinvin P.O. and Stores
BPL54	Peppered steak slice	The Village Bakery	200 g	None given	16:06	5 021211 020330	27 JUL 06	20/07/2006	Today's Express Store
BPL55	Spreadable Irish butter blended with vegetable oil	Booths	250 g	Packed in Ireland	14:11	5 028440 029097	29 SEP 06	20/07/2006	Booths
BPL56	Football Ted biscuit	Football Ted	46 g	UK	None given	5 025125 005018	MAY 2007	20/07/2006	Cally Service Station
BPL57	Vanilla seeds	Boots Delicious	50 g	UK	L6171B9001	5 045093 085676	DEC 2006	25/07/2006	Boots
BPL58	Mini raspberry & white chocolate cookies	Boots Shapers	30 g	UK	L6182 B9	5 045093 085409	01.01.07	25/07/2006	Boots
BPL59	Maltesers	None given	37 g	None given	UE1	5 000159 020312	07-01-07	25/07/2006	Boots
BPL60	Peppercorn sauce	Marks & Spencer	300 g	UK	39 E17 10:54	M 0202 664 S	02 AUG	25/07/2006	Marks & Spencer
BPL61	Fresh soured cream	Marks & Spencer	170 ml	UK	12:00	M 0329 491 S	28 JUL	25/07/2006	Marks & Spencer
BPL62	Spicy mini poppadums	Marks & Spencer	50 g	UK	61608C08:01C	M 0462 266 S	01 08 06	25/07/2006	Marks & Spencer

Code	Product	Brand	Size / Product weight	Country of origin	Batch code	Barcode	Best-before-date	Date of purchase	Retail Outlet
BPL63	Crunchy summer salad	Marks & Spencer	250 g	Produce of various countries	E 13:27	M 0025 935 S	25 JUL	25/07/2006	Marks & Spencer
BPL64	Half fat grated mature cheddar	Marks & Spencer	275 g	UK	090706 L20 12:32	M 0403 665 S	26 AUG	25/07/2006	Marks & Spencer
BPL65	Minced beef & onion pie	Tesco	150 g	U.K.	23334D	5 000436 094289	29 JUL	27/07/2006	Tesco
BPL66	Enriched olive spread	Tesco	250 g	Ireland	00:58 A N	0301 4011	07 NOV 06	27/07/2006	Tesco
BPL67	Scotch egg	Tesco	113 g	Produced in the U.K. with Tesco assured pork from farms in the EC	L6 L6206 13:51	5 000436 901860	02 AUG	27/07/2006	Tesco
BPL68	Extra mature cheddar	Tesco	250 g	Packed in the U.K.	L19 13:45	5 010204 155746	15 SEP	27/07/2006	Tesco
BPL69	Italian grated parmesan	Tesco	50 g	Italy	None given	5 018374 141378	24 SEP	27/07/2006	Tesco
BPL70	2 Gammon steaks	Dulano	256 g	None given	L06:30 19803	2001 5138	09.08.06	27/07/2006	Lidl
BPL71	Fresh double cream	S ^t . Ivel	284 ml	None given	GS003M 08:17 G2	5021 6413	03 AUG	27/07/2006	Lidl
BPL72	Spreadable	Heuso	250 g	None given	07:42 A	2009 9251	30 SEP 06	27/07/2006	Lidl
BPL73	Strawberry pro-biotic yogurt	Optifit	200 g	None given	None given	2508 6706	01.09	31/07/2006	Aldi
BPL74	Beechwood smoked frankfurters	Böklunder	350 g	None given	110021	4 000404 028811	31.08.06	31/07/2006	Aldi
BPL75	Chicken & mushroom flavour snack noodle	Snack noodle	93.5 g	None given	L6159/4/5	2503 0334	JUN/07	31/07/2006	Aldi
BPL76	Chunky vegetable pasta sauce	Casa Barelli	300 g	UK	6088S 14:57 CV	2509 6040	MAR 2007	31/07/2006	Aldi
BPL77	Jetters	Bernard Matthews	250 g	None given	L5 QRG1 23:17	5 010236 107010	DEC 2006	31/07/2006	Iceland
BPL78	Crispy slices	M ^c Cain	600 g	None given	C23052006 5 13:44	5 010228 071701	11 2007	31/07/2006	Iceland
BPL79	2 Cod fish cakes	Marks & Spencer	170 g	Made in the UK with cod from Iceland and Norway	08:46 CD209 06	M 0443 906 S	04 AUG	31/07/2006	Marks & Spencer

Code	Product	Brand	Size / Product weight	Country of origin	Batch code	Barcode	Best-before-date	Date of purchase	Retail Outlet
BPL80	4 Cherry scones	Marks & Spencer	240 g	UK	(X35)	M 0265 430 S	02AUG	31/07/2006	Marks & Spencer
BPL81	Chefs vegetable selection	Marks & Spencer	250 g	Packed in the UK. Produce of various countries	4714	M 0151 436 S	01 AUG	31/07/2006	Marks & Spencer
BPL82	Extra lean ham	Marks & Spencer	113 g	Sliced in the UK with Marks & Spencer assured pork from farms in Denmark	B A	M 0256 353 S	14 AUG	31/07/2006	Marks & Spencer
BPL83	Crunchy oat cereal	Co-op	500 g	Made in UK using South African raisins, Turkish hazelnuts and coconuts from the Philippines	08:46 6187 000 B1A	5 000128 164757	APR07	31/07/2006	Co-op Village Store
BPL84	Potato salad with onions and chives	Co-op	258 g	Made in UK using Dutch potatoes and EU onions	1422 Y	5 000128 311458	13 AUG	31/07/2006	Co-op Village Store
BPL85	Coleslaw	Sainsbury's basics	250 g	UK	None given	0117 5486	07 AUG	31/07/2006	Sainsbury's
BPL86	Cornish pasty	Sainsbury's	175 g	Produced in the UK using British beef	EB	0118 9339	05 AUG	31/07/2006	Sainsbury's
BPL87	Grated mild cheese	Sainsbury's basics	500 g	UK	22:45 Line 19 26 07 06	0115 1787	21 SEP 06	31/07/2006	Sainsbury's
BPL88	Quick pasta spaghetti bolognese flavour	Sainsbury's	63 g	UK	6180 WM 31	0137 8511	JUN 2007	31/07/2006	Sainsbury's
BPL89	Grated cheddar	Spar	200 g	None given	None given	5 010358 055992	09/10/06	02/08/2006	Spar
BPL90	2 Snack pork pies	Pork farms	164 g	None given	01 211 12:25	5 000242 100938	11 AUG	02/08/2006	Spar
BPL91	Frazzles	Walkers	25 g	None given	GBB2 02 186 3003 02:21	5 000328 532493	07-10-06	02/08/2006	Spar

Code	Product	Brand	Size / Product weight	Country of origin	Batch code	Barcode	Best-before-date	Date of purchase	Retail Outlet
BPL92	Fresh potato salad	Spar	200 g	None given	13063 2	5 010358 045467	06/08/06	02/08/2006	Spar
BPL93	Cherry yoghurt	Happy Shopper	150 g	None given	BF5 20:51 092	5 011295 075777	27.09.06	02/08/2006	Happy Shopper
BPL94	Pot noodle sweet & sour flavour	Pot Noodle	86 g	None given	L047B2	5 000184 201922	NOV 06	02/08/2006	Londis
BPL95	Black pepper powder	TRS	100 g	India	L5220	5 017689 006617	AUG 2007	02/08/2006	Londis
BPL96	Mallow burger	Kandy Kastle Inc.	120 g	China	LK-71	4 897002 114080	21/11/07	02/08/2006	Home Bargains
BPL97	2 Cheese baguettes	Kwik Save	350 g	Germany	L2875 05:18 1	5 000192 298839	10/2006	02/08/2006	Kwik Save
BPL98	Whole cooked baby beetroot	Brookerpaks	250 g	None given	192M	0 223890 000695 printed on sticker	300107	02/08/2006	Kwik Save
BPL99	Swede & carrot	Splendour	400 g	None given	621009:182	0 215230 000694	05/08/2006	02/08/2006	Kwik Save
BPL100	Simply chicken nuggets	Kwik Save	320 g	U.K.	L605305S	5 000192 275816	FEB 07	02/08/2006	Kwik Save
BPL101	6 Soft white rolls	Budgens	225 g	UK	None given	2001 0362	05 AUG	03/08/2006	Budgens
BPL102	Fresh pasteurised single cream	Dairy Farmers of Britain	142 ml	Britain	W A 12:56YK100	5 011129 000616	07 AUG	03/08/2006	One Stop Convenience Stores
BPL103	4 Medium traditional style Yorkshire puddings	Asda	145 g	UK	L6178 02:51	W 2042 2172 G	27 JUN 2007	03/08/2006	Asda
BPL104	Quorn mince	Quorn	300 g	UK	1361700009	5 019503 002157	30/09/07	03/08/2006	Asda
BPL105	Cottage cheese	Longley Farm	250 g	None given	N	5 010578 008020	20 AUG	03/08/2006	Asda
BPL106	Dried mango pieces	Asda	100 g	Produce of more than one country.	6159	W 2769 7573 G	12/04/07	03/08/2006	Asda
BPL107	2 Cheese & onion rolls	Asda	130 g	UK	L5 10:33	W 2755 6696 G	10 AUG	03/08/2006	Asda
BPL108	Pork pie	Asda Smartprice	110 g	UK	L6 07:32	W 2037 7571 G	09 AUG	03/08/2006	Asda
BPL109	Mexican style cheese mix	Asda	200 g	EU	1246 179 0005	5 050854 223068 G	08-09-06	03/08/2006	Asda
BPL110	Vegetable medley	Tesco	200 g	Zimbabwe	HM10 MV1	1003 5412	09 AUG	04/08/2006	Tesco
BPL111	Flora light	Flora	250 g	None given	09:56 L61950L119	5024 1231	28-10-06	04/08/2006	Tesco
BPL112	Smarties	Nestlé	160 g	None given	61860946 2	5 000426 173543	01 06 07	04/08/2006	Tesco
BPL113	Chocolate filled crêpes	Tesco	192 g	France	172 12:19 D	5 000358 240184	11/08/2006	04/08/2006	Tesco
BPL114	Natural fromage frais	Tesco healthyliving	200 g	France	10:17	5 031021 649959	10AUG	04/08/2006	Tesco

Code	Product	Brand	Size / Product weight	Country of origin	Batch code	Barcode	Best-before- date	Date of purchase	Retail Outlet
BPL115	Sliced mixed peppers	Tesco	500 g	Spain	6096 TFMA 15:25	5 031021 130501	APR-2007	04/08/2006	Tesco

Table 2: Results from check sample exercise for the analysis of benzophenone and 4-hydroxybenzophenone in turkey samples

Results are single determinations of each sample and are corrected for analytical recovery.

(a) Benzophenone

Sample	'Spike' Level (milligrams/kilogram)	Level Reported (milligrams/kilogram)	Measurement Accuracy (per cent)
1	0.13	0.13	100
2	Blank	ND	NA
3	0.53	0.52	98
4	0.13	0.12	92
5	0.53	0.51	96
6	Blank	ND	NA

ND: not detected; limit of detection: 0.0022 mg/kg

NA: not applicable

(b) 4-Hydroxybenzophenone

Sample	'Spike' Level (milligrams/kilogram)	Level Reported (milligrams/kilogram)	Measurement Accuracy (per cent)
1	0.14	0.14	100
2	Blank	ND	NA
3	0.58	0.54	93
4	0.14	0.13	93
5	0.58	0.55	95
6	Blank	ND	NA

ND: not detected; limit of detection: 0.0024 mg/kg

NA: not applicable

Table 3: Results from check sample exercise for the analysis of benzophenone and 4-hydroxybenzophenone in cheese samples

Results are single determinations of each sample and are corrected for analytical recovery.

(a) Benzophenone

Sample	'Spike' Level (milligrams/kilogram)	Level Reported (milligrams/kilogram)	Measurement Accuracy (per cent)
1	Blank	ND	NA
2	0.11	0.11	100
3	0.11	0.11	100
4	Blank	ND	NA
5	0.42	0.43	102
6	0.42	0.42	100

ND: not detected; limit of detection: 0.0022 mg/kg

NA: not applicable

(b) 4-Hydroxybenzophenone

Sample	'Spike' Level (milligrams/kilogram)	Level Reported (milligrams/kilogram)	Measurement Accuracy (per cent)
1	Blank	ND	NA
2	0.12	0.12	100
3	0.12	0.11	92
4	Blank	ND	NA
5	0.46	0.45	98
6	0.46	0.46	100

ND: not detected; limit of detection: 0.01 mg/kg

NA: not applicable

Table 4: Results from check sample exercise for the analysis of benzophenone and 4-hydroxybenzophenone in orange juice samples

Results are single determinations of each sample and are corrected for analytical recovery.

(a) Benzophenone

Sample	'Spike' Level (milligrams/kilogram)	Level Reported (milligrams/kilogram)	Measurement Accuracy (per cent)
1	0.11	0.10	91
2	Blank	ND	NA
3	0.32	0.33	103
4	0.32	0.34	106
5	Blank	ND	NA
6	0.11	0.11	100

ND: not detected; limit of detection: 0.0022 mg/kg

NA: not applicable

(b) 4-Hydroxybenzophenone

Sample	'Spike' Level (milligrams/kilogram)	Level Reported (milligrams/kilogram)	Measurement Accuracy (per cent)
1	0.12	0.13	108
2	Blank	ND	NA
3	0.35	0.37	106
4	0.35	0.35	100
5	Blank	ND	NA
6	0.12	0.12	100

ND: not detected; limit of detection: 0.0024 mg/kg

NA: not applicable

Table 5: Levels of benzophenone (mg/kg) found in food samples tested in *Phase 1* of the survey

Note: Limits of detection and limits of quantitation were dependent on food matrices. Worst case limit of detection and limit of quantitation for benzophenone were 0.041 and 0.045 mg/kg respectively.

Survey sample code	Product description	Mean benzophenone concentration (mg/kg) (n=2)
BZ04	Winnie the Pooh chocolate sponge cake	4.4 ± 0.71
BZ05	Vegetable and cheese pie	0.56 ± 0.092
BZ15	2 Free range scotch eggs	0.22 ± 0.039
BZ29	Micro chicken nuggets	0.52 ± 0.085
BZ30	4 Quorn burgers	0.069 ± 0.018
BZ32	Chunky chocolate flapjack	0.27 ± 0.046
BZ33	Chicken & stuffing sandwich	0.27 ± 0.045
BZ34	4 Marlborough buns	1.3 ± 0.21
BZ43	10 Cod fish fingers	1.7 ± 0.27
BZ48	Egg pasta lasagne	2.5 ± 0.40
BZ52	6 Crumpets	3.3 ± 0.53
BZ63	6 Plain pancakes	1.7 ± 0.28
BZ76	3 Cornish pasties	1.5 ± 0.24
BZ79	Cheese & onion quiche	0.55 ± 0.090
BZ89	Scottish steak pie	0.12 ± 0.024
BZ94	4 Cod fish cakes	0.81 ± 0.13
BZ98	Micro snacks 2 hot dogs	0.066 ± 0.017
BZ106	6 Deep ring crumpets	0.64 ± 0.11
BZ114	Orange flavour jelly	0.13 ± 0.025
BZ116	Oatcakes	0.11 ± 0.023
BZ120	Matchmakers	0.51 ± 0.083
BZ131	2 Doner kebabs	0.16 ± 0.029
BZ133	8 Sun-dried tomato sausages	1.5 ± 0.24

Survey sample code	Product description	Mean benzophenone concentration (mg/kg) (n=2)
BZ136	6 Fish cakes	0.40 ± 0.066
BZ143	Jelly	0.19 ± 0.034
BZ155	10 Fish fingers	0.45 ± 0.074
BZ156	10 Cod fish fingers	0.42 ± 0.069
BZ157	Chippy chips	0.67 ± 0.11
BZ171	Poppets	0.39 ± 0.064
BZ172	Sugar free orange flavour jelly	4.5 ± 0.73
BZ183	6 Hot cross buns	2.5 ± 0.41
BZ185	4 Cod fishcakes with coriander and chilli	0.38 ± 0.063
BZ190	2 Tuna & red pepper fish cakes	0.58 ± 0.095
BZ196	Farmhouse cheddar & onion quiche	0.34 ± 0.056
BZ198	2 Mushroom, bacon & watercress tartlets	0.45 ± 0.072
BZ210	6 Vanilla cream eggs	2.8 ± 0.045
BZ218	Bacon bap	0.029 ± 0.015
BZ236	Red split lentils	0.58 ± 0.095
BZ239	Plain flour	0.12 ± 0.027
BZ248	Strawberry crisp	0.14 ± 0.027
BZ249	8 Crumpets	2.7 ± 0.43
BZ250	Spaghetti alla Napoli	2.4 ± 0.39
BZ256	20 Minced cod fish fingers	0.44 ± 0.072
BZ258	Corned beef hash	0.072 ± 0.018
BZ267	Scott's porage oats	0.060 ± 0.017
BZ271	Edinburgh Castle rock	0.16 ± 0.030
BZ284	Chicken tikka naan	0.78 ± 0.13
BZ286	2 Fresh cream slices	0.094 ± 0.021
BZ289	Bakewell tart	0.047 ± 0.016
BZ297	Panini	0.49 ± 0.081

Survey sample code	Product description	Mean benzophenone concentration (mg/kg) (n=2)
BZ300	4 Battered whitefish portions	1.2 ± 0.20
BZ304	Super high fibre	1.1 ± 0.17
BZ313	Custard doughnuts	0.035 ± 0.015
BZ316	Apple pie	0.072 ± 0.018
BZ323	Cheese & bacon quiche	0.39 ± 0.065
BZ326	Country crisp wild about berries	0.88 ± 0.14
BZ331	Fries to go	1.4 ± 0.22
BZ333	4 Blueberry muffins	0.27 ± 0.045
BZ335	2 Cheese omelettes	0.92 ± 0.15
BZ336	30 Mini rostis	1.3 ± 0.21
BZ348	2 Omelettes cheese	3.9 ± 0.64

Table 6: Levels of benzophenone (mg/kg) found in food samples tested in *Phase 2* of the survey

Note: Limits of detection and limits of quantitation were dependent on food matrices. Worst case limit of detection and limit of quantitation for benzophenone were 0.00069 and 0.015 mg/kg respectively.

Survey sample code	Product description	Mean benzophenone concentration (mg/kg) (n=2)
BPL27	Porridge oats	0.070 ± 0.017
BPL35	Instant noodles chicken and mushroom flavour	0.069 ± 0.017
BPL36	Beef and tomato flavour mini snack meal	0.15 ± 0.028
BPL102	Fresh pasteurised single cream	0.081 ± 0.019