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SURVEY OF METALS IN WEANING FOODS AND FORMULAE FOR INFANTS

Summary

The Food Standards Agency has conducted a survey to establish the concentrations of 15 metals and other elements in a wide range of commercial weaning foods and formulae.

The aim of this survey was to provide an indication of the concentrations of metals and other elements in weaning foods and formulae for infants on sale in the UK and to allow an assessment of infants' exposures from these elements in these foods.

The key facts are:

- Aluminium, antimony, arsenic, cadmium, chromium, copper, iodine, iron, lead, manganese, mercury, nickel, selenium, tin and zinc were measured in 201 samples of commercial weaning foods and formulae for infants.
- Levels of these elements in weaning foods and formulae were generally similar to those measured in a previous FSA survey¹. One sample of formula for infants had levels of iron slightly above the permitted limits².
- Estimated exposures to these elements have been compared with safety guidelines, where available. Overall, the results of the survey are consistent with those of the 2003 survey, which the Committee on Toxicity of Chemicals in Food, Consumer Products and the Environment (COT) concluded did not give concern for the health of infants.

Background

Metals and other elements can be present in foods naturally, as a result of human activities (such as farming practices and industrial emissions), from storage or processing of foods (such as tin dissolution from cans into canned food), or added intentionally (such as iron). The main route of intake for most of these elements is from our diet. Some of these elements are essential nutrients, which we need to get from food for healthy functioning. Others have no known beneficial health effects, but all may be harmful if eaten in excessive amounts.

The FSA regularly monitors the concentrations of metals and other elements in food. Previous multi-element analysis of the Total Diet Study (which is representative of the average UK diet) have shown that concentrations of metals and other elements in food do not present significant risks to the general UK population³. However, estimates of dietary intakes for the general population cannot be easily or accurately extended to infants, as infants consume a diet that is different in many ways from that of adults and of children old enough to eat conventional adult foods. As infants grow and develop very rapidly in their first year of life, their energy requirements and food consumption are on average higher relative to their body weight than that of adults and older children. This means that infants can have relatively higher dietary exposures to chemicals present in food than other age groups, when expressed on a body weight basis.

In addition, infants' diets are made up of a more restricted range of foods, particularly before and in the early stages of weaning when the diet is made up entirely or largely of breast milk and/or commercial formulae. On weaning, when solids are given, a large proportion may be commercially available weaning foods. The composition of commercial formulae for infants and weaning foods can be very different from the foods that make up the diet of the general population and therefore information is needed on the levels of metals and other elements in these food groups. The range of weaning foods is constantly growing and changing, so it is important that the Agency regularly up-dates its information on such foods.

Brand Names

In accordance with the Food Standards Agency policy for the release of brand names when reporting the results of food chemical surveillance, details about the individual samples are given in full in Annex 2. It should be noted that the absence of any particular brand from this survey means only that the brand was not included in the survey. No further meaning should be read into the absence of any brand from this Food Survey Information Sheet.

Methodology

Sampling

Ventress Technical Limited purchased 201 samples of weaning foods and formulae from retail outlets between London and Cambridge, during November 2004 and February 2005. Five categories of commercial weaning foods, infant formula, follow-on formula and growing-up milk were sampled: formulae and growing-up milks (48 samples, including infant and 'follow-on' formulae and growing-up milk), processed savoury baby food products (75 samples, foods containing meat, fish, pasta and vegetables), breakfast, rusks and breadsticks (34 samples), biscuits (8 samples), cereal bars and rice cakes (9 samples), desserts (12 samples), baby rice (8 samples) and fruit purees (7 samples). Further information is available in the contractor's final report⁴.

Analysis

Samples were analysed at the Central Science Laboratories (CSL) for aluminium, antimony, arsenic, cadmium, chromium, copper, iodine, iron, lead, manganese, mercury, nickel, selenium, tin and zinc. CSL are accredited by the United Kingdom Accreditation Service for the analysis of these elements in food, and have received satisfactory scores in relevant FAPAS (Food Analysis Performance Assessment Scheme) rounds.

Multi-element analyses were carried out using Inductively Coupled Plasma-Mass Spectrometry (ICP-MS). All samples were analysed 'as sold' (i.e., formulae and dried meals were not reconstituted prior to analyses). Samples were digested in aqua regia (a mixture of hydrochloric and nitric acid) and multi-element analyses were performed by high resolution ICP-MS. Because iodine is not quantifiable by the multi-element nitric acid digestion methodology, an aqueous-alkaline extraction was used as a separate analysis. Further details of analyses are given in the contractor's final report

of the project⁵, which is available from the FSA library (see Further Information section).

A linked research project looking at levels of inorganic arsenic, methyl mercury and different chromium species present in baby foods is currently being carried out by CSL⁶. A supplementary information sheet will be published with the results in Spring 2007.

Quality Control

CSL is UKAS accredited to ISO 17025 for a wide range of determinations in analytical chemistry. Limits of detection (LOD) and quality control reports (including measurement uncertainties) are included in the final report of this project⁵. The LODs for the analysis of weaning foods and formulae are detailed in Table 1.

Results

A summary of the mean concentration of elements in each broad food type is given in Table 2. Soya and goats' based formulae and growing-up milks are listed separately from cow's milk-based formulae. However, the number of non-cows milk-based formulae and growing-up milks analysed was limited (6 samples), so the data may not be representative. However, soya-based milks seem to show higher concentrations of certain elements than the animal-based types, as these naturally accumulate in the soya beans. Results are expressed as upper bound, which means that where individual sample analyses were less than the limit of detection, the result is expressed as equal to the limit of detection. Details of individual results are detailed in Annex 1.

The results are discussed below and compared with data from previous studies, recommended intake standards and relevant legal limits. Where limits are set for formulae and weaning foods these apply to the food as ready to eat when made up according to the manufacturers instructions so in most cases it does not apply to the product as it is on the shelf.

All samples were checked for compliance against limits laid down in the UK Arsenic in Food Regulations 1959 setting maximum levels for arsenic in foods⁷; Commission Regulation 466/2001 (as amended by Commission Regulation 221/2002) setting maximum levels for certain contaminants in foodstuffs⁸, including cadmium, lead, mercury and tin; the Processed Cereal-based Foods and Baby Foods for Infants and Young Children (England) Regulations (S.I. 2003/3207)⁹ and the Infant Formula and Follow-on Formula

regulations (S.I. 1995/77)² which set levels for vitamins, minerals and some trace elements such as iron, zinc, copper, iodine and manganese. One sample of formula for infants had levels of iron slightly above the permitted limit. The manufacturer of this product and the local authority of the area where the product was purchased were informed. The manufacturer agreed to develop a new formulation of their infant formula as to lower the iron levels. Their full comments are included in Annex 3.

For the purposes of this survey 'weaning foods' refer to processed cereal based foods and baby foods for infants and young children as defined in the Processed Cereal-based Foods and Baby Foods for Infants and Young Children (England) Regulations (S.I. 2003/3207)⁹. Moreover, the term 'formulae for infants' refers to infant formula and follow-on formula as defined in the Infant Formula and Follow-on Formula regulations (S.I. 1995/77)². This survey also includes infant formula that may fall under the foods for special medical purposes Regulations.

Aluminium

There are no regulatory limits for aluminium. Aluminium was detected in most samples with a mean concentration of 1.45 mg/kg. The maximum value of 25.4 mg/kg was found in a cereal bar sample. These results are consistent with the 2003 FSA survey of infant foods in which the mean concentration of aluminium was 2.1 mg/kg. Soya-based infant formulae showed higher aluminium levels than the animal types, since soya beans naturally accumulate certain elements such as aluminium.

Antimony

There are no regulatory limits for antimony. Antimony was present at very low concentrations, with a mean concentration of 0.001 mg/kg. The highest level was 0.009 mg/kg in a breakfast food sample. These results are comparable with the 2003 FSA survey in which the mean concentration was 0.002 mg/kg.

Arsenic

Arsenic concentrations found in all of the samples analysed in this survey are well below the general limit of 1 mg/kg for all foods set in the UK 1959 Arsenic in Food Regulations⁷. The mean concentration value at 0.03 mg/kg is comparable with that from the 2003 FSA survey at 0.02 mg/kg. As expected, the highest levels were found in foods containing fish, followed by products made with rice and poultry. This mirrors results from the 2000 total

diet study³.

Cadmium

EC Regulation 466/2001 sets limits for cadmium⁸ for those foods which contribute significantly to population dietary exposures to cadmium. The limits set for foods, which are likely to be present in infant foods vary from 0.05 mg/kg to 0.2 mg/kg. The highest cadmium concentration of 0.09 mg/kg was seen in a sample of rice porridge. The limit for cadmium in rice is 0.2 mg/kg.

Cadmium was present in most samples with a mean concentration of 0.01 mg/kg. Concentrations found are consistent with the mean level reported in the 2003 FSA survey of infant foods of 0.009 mg/kg. In line with the 2000 TDS³, food products containing cereals and root vegetables exhibit the highest levels.

Chromium

There are no regulatory limits for chromium. The mean concentration of 0.05 mg/kg is similar to that found in the previous survey at 0.06 mg/kg. The maximum value of 0.62 mg/kg was found in a sample of dessert.

Copper

The levels of some nutrients present in infant formulae and follow-on formula are subject to statutory control by the Infant Formulae and Follow-on Formulae Regulations 1995 as amended². These Regulations set a range between which copper levels in 'infant formulae and follow-on formulae should fall. The minimum and maximum levels are expressed on a calorific rather than weight basis and are 20 to 80 µg/100 kcal. The formulae analysed in this survey, which are covered by these Regulations, fall within the specified range.

The processed cereal-based foods and baby foods for infants and young children (England) Regulations⁹ (S.I. 2003/3207) set a maximum limit of 40 µg of copper per 100 kcal for products where this element has been added. No samples covered by these Regulations were above the legal limits.

The mean concentration of copper was 1.3 mg/kg, which is very similar to that from the 2003 FSA survey of baby foods at 1.2 mg/kg. The highest level was found in a sample of cereal bar.

Iodine

All samples in this survey comply with those set by the Infant Formulae and Follow-on

Formulae Regulations 1995² (5 µg/100 kcal) and the Processed Cereal-Based Foods and Baby Foods for Infants and Young Children Regulations⁹ (35 µg/100 kcal if added).

The mean iodine concentration was 0.2 mg/kg. Although samples were not analysed for iodine in the FSA 2003 baby foods survey, levels found are in line with those found in the 1997 Total Diet Study¹⁰. The highest level found was 2.6 mg/kg in a sample of goat's milk. In line with previous data, foods in the milk group exhibit the highest levels.

Iron

The levels of some nutrients present in infant formulae are subject to statutory control by the Infant Formulae and Follow-on Formulae Regulations 1995 as amended². These Regulations set a range between which iron levels in such formulae should fall. The minimum and maximum levels are expressed on a calorific rather than weight basis and are 0.5 to 1.5 mg/100 kcal for cows based and 1 to 2 mg/100 kcal for soya based formulae. One sample of formula for infants showed an iron level of 87 mg/kg, which when corrected for measurement for uncertainty, gave rise to a level of 1.6mg/100 kcal, slightly above the maximum limit at 1.5 mg/100 kcal.

The processed cereal-based foods and baby foods for infants and young children (England) Regulations⁹ (S.I. 2003/3207) set a maximum limit of 3 mg of iron per 100 kcal for products where this element has been added. One sample of pudding showed an iron level of 122mg/kg, which gave rise to a borderline result at 3 mg/100 kcal.

The mean concentration of iron was 27 mg/kg. Levels of iron were significantly higher in the cereal bar, rusks and biscuits food groups than in any other solid foods.

Lead

A specific limit for lead in infant formulae of 0.02 mg/kg is set in EC Regulation 466/2001 as amended⁸. All of the samples of formulae analysed in this survey are below this limit. For other foods used as ingredients in weaning foods, limits range from 0.05 mg/kg to 0.3 mg/kg. The highest lead concentration at 0.075 mg/kg was found in a breakfast sample. The limit for lead in cereals and pulses is 0.2 mg/kg.

The mean level of lead at 0.006 mg/kg is slightly lower from that reported at 2003 FSA survey (0.008 mg/kg).

Manganese

The processed cereal-based foods and baby foods for infants and young children (England) Regulations⁹ (S.I. 2003/3207) set a maximum limit of 0.6 mg of manganese per

100 kcal for products where this element has been added. No samples of solid foods with added manganese were included in the survey.

The mean concentration of manganese was 3.5 mg/kg. The highest level was found in a rice porridge sample. This is not surprising, as the highest manganese concentrations are present in cereals such as wheat and rice.

Mercury

Regulatory limits for mercury are only set for fish, in which much higher levels of mercury can accumulate than other foods. There are two limits for mercury in fish set in EC legislation⁸, a limit of 0.5 mg/kg that applies to most species, and a higher limit of 1 mg/kg for those species that naturally accumulate higher levels. All of the samples of weaning foods analysed for this survey are well within the lower limit.

Mercury was detected at concentrations at or above the LOD in only about one quarter of the samples in this survey. The mean mercury concentration was 0.001 mg/kg, slightly lower than the mean value from the 2003 FSA survey at 0.003 mg/kg. The highest level found was 0.012 mg/kg in a sample in the savoury foods group containing fish.

Nickel

There are no regulatory limits for nickel. The mean concentration remains unchanged from that found in the 2003 FSA survey at 0.1 mg/kg. The maximum value at 0.9 mg/kg was found in a sample of porridge. Soya-based infant formulae showed higher nickel levels than the animal types, since soya beans naturally accumulate certain elements such as nickel.

Selenium

There are no regulatory limits for selenium. The mean concentration remains unchanged from that found in the previous survey at 0.04 mg/kg. The maximum value at 0.19 mg/kg was found in a sample of infant formula.

Tin

Tin concentrations in all samples were well within the limit of 50 mg/kg in canned baby foods and infant formula set by Commission Regulation⁸ 466/2001 as amended.

The mean tin concentration was 0.08 and 0.09 mg/kg in non-canned and canned foods respectively, lower than the mean value from the previous survey at 0.3 mg/kg. The highest level found was 9.1 mg/kg in a non-canned sample of cottage pie.

Zinc

All samples in this survey comply with those set by the Infant Formulae and Follow-on Formulae Regulations² 1995 (0.5-1.5 mg/100 kcal for cow's milk and 0.75-2.4 mg/100 kcal for soya-based) and the processed cereal-based foods and baby foods for infants and young children regulations⁹ (2 mg/100 kcal if added).

The mean zinc concentration was 16 mg/kg, lower than the mean value from the previous survey at 19 mg/kg. The highest level found was 71 mg/kg in a sample of formula. These concentrations are higher than those found in the general diet³, because many infant foods are fortified with zinc to ensure they satisfy nutritional requirements for this essential element for infants.

Assessment of dietary exposures

Method

The approach followed was using manufacturers' feeding instructions and recommendations for infant formulae consumption, and for solid foods to estimate consumption rates for infants of different ages, based on maximum recommended amounts of food from three manufacturer's example menus¹¹⁻¹³. The total amounts of solid foods used to carry out this risk assessment were 155 g/day, 575 g/day and 765 g/day for 4-6, 7-9 and 10-12 months-old babies. No meaning should be read into the selection of these particular menus. Dietary exposures were calculated using the mean concentration of metals in solid foods and infant formulae and allowing a dilution factor for dried/concentrated foods.

There are a number of limitations to this risk assessment since it assumes these products make up the total amount of food eaten. This approach also does not include any contribution from foods not manufactured specifically for infants (e.g. normal 'adult' foods or home-prepared baby meals), breast milk, nor do they consider wastage of food. No account is made of the possible contribution from water used to reconstitute dried or concentrated infant foods and formulae to the total concentration of an element in an infant's diet. However, this factor is considered minimal since metal levels in water are very low and are regularly monitored.

Estimated exposure results

Dietary exposure of infants to all foods and percentage relevant safety levels from all foods, milks and solid foods are reported in Tables 3a and 3b respectively.

Dietary exposures for aluminium¹⁴, antimony¹⁵, arsenic¹⁶, (inorganic only), cadmium¹⁷, chromium¹⁸, copper¹⁸, iodine¹⁹, iron²⁰, lead²¹, mercury²², nickel²³, selenium²⁴, tin¹⁸ and zinc²⁵ are compared to provisional tolerable intakes set by the Joint Expert Committee on Food Additives of the Food and Agriculture Organisation and World Health Organisation (JECFA). These tolerable levels are an estimate of the amount of a substance that can be ingested over a lifetime without appreciable risk. No tolerable levels have been set for manganese. The provisional tolerable daily intake (PTDI), like most of these values, does not apply to babies under 3 months and so we cannot make a direct comparison between tolerable levels for adults and infants. Therefore, exposure comparisons against the PTDI for babies under 3 months have only been included as a guideline. Results have also been compared to the safe upper levels of intake recommended by the Expert Group on Vitamins and Minerals.

Taking into account the nutritional requirements for infants, the intakes of iron are not a concern for the health of infants. Consumption of some samples could lead to intakes of nickel above the safety guidelines. However, the COT previously concluded that ingestion of nickel may result in skin reactions in pre-sensitised individuals and that since infants are less likely than adults to be sensitised to nickel they are not considered to be a susceptible group.

A linked research project looking at levels of inorganic arsenic, methyl mercury and different chromium species present in baby foods is currently being carried out by CSL. This will allow for a less conservative and more specific risk assessment to be carried out since the PTDI's for arsenic, chromium and mercury are based on levels of the more toxic forms of these elements such as inorganic arsenic, methyl mercury and trivalent chromium. A supplementary information sheet will be published with the results in spring 2007.

Overall, the results of the survey are consistent with those of the 2003 survey, which the COT concluded did not give concern for the health of infants²⁶.

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Further Information

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Further copies of this Information Sheet can be obtained from:

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A copy of the final report of this survey has been placed in the FSA Library - address detailed above. If you wish to consult a copy 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. Quantification limits adjusted for sample weight.

Limits of detection* ($\mu\text{g}/\text{kg}$)

Element	Al	Cr	Mn	Fe	Ni	Cu	Zn	As	Se	Cd	Sn	Sb	Hg	Pb	I
0.5g	100	10	15	300	50	40	150	2	2	3	15	0.5	1	2	60
1.0g	50	5	8	150	25	20	75	1	1	1.5	8	0.25	0.5	1	30
2.0g	25	3	4	75	13	10	38	0.5	0.5	0.8	4	0.13	0.3	0.5	20
3.0g	17	2	3	50	8	7	25	0.3	0.3	0.5	3	0.08	0.2	0.3	10

Limits of quantification** ($\mu\text{g}/\text{kg}$)

Element	Al	Cr	Mn	Fe	Ni	Cu	Zn	As	Se	Cd	Sn	Sb	Hg	Pb	I
0.5g	333	33	50	1000	167	133	500	7	7	10	50	2	3	7	200
1.0g	167	17	25	500	83	67	250	3	3	5	25	1	2	3	100
2.0g	83	8	13	250	42	33	125	2	2	3	13	0.4	0.8	2	67
3.0g	56	6	8	167	28	22	83	1	1	2	8	0.3	0.6	1	33

*The limit of detection (LOD) is calculated from 3 x standard deviation of reagent blank values adjusted for dilution and sample weight.

**The limit of quantification (LOQ) is 10 x standard deviation of reagent blank values adjusted for dilution and sample weight.

Table 2. Mean element concentrations ($\mu\text{g}/\text{kg}$) in infant foods

Food type	Number of samples	Concentration ($\mu\text{g}/\text{kg}$ as sold)														
		Al	Cr	Mn	Fe	Ni	Cu	Zn	As	Se	Cd	Sn	Sb	Hg	Pb	I
Baby rice	8	780	23	7993	19017	94	1662	16954	183	33	19	25	1	2	4	91
Biscuits	8	4571	45	5898	39083	83	1245	9482	16	45	11	18	2	1	13	75
Breakfast	27	1024	68	8970	29464	275	1498	18204	37	34	15	25	2	1	10	120
Cereal bars/rice cakes	9	7205	98	14206	29552	463	2518	11585	122	24	21	26	2	3	11	140
Desserts	12	1690	78	2076	22909	116	745	13435	18	27	4	139	1	1	5	178
Fish	7	470	22	693	4432	60	391	2483	145	38	7	52	0	7	4	110
Fruit puree	7	1529	36	1645	13507	54	767	2435	11	7	3	9	1	0	5	70
Meat	45	1074	49	1639	16851	87	723	8329	20	23	11	249	0	1	5	43
Pasta/dairy	16	914	30	2126	12492	61	673	11887	27	29	9	45	0	1	5	68
Rusks	7	2612	80	3700	59386	91	1205	5677	6	44	10	19	1	1	12	84
Vegetables	7	1419	40	2192	16485	90	1133	11565	13	25	20	23	0	1	5	43
All solid foods	153	1704	53	4389	22327	140	1066	11037	42	29	12	102	1	1	7	86
Infant formulae (first milk)	14	498	19	684	36498	40	1904	30077	6	76	3	16	1	1	3	467
Infant formulae (second milk)	11	522	22	360	34294	35	1734	28674	3	75	2	14	1	1	2	565
Follow on milk	13	711	30	558	48549	37	1971	33161	5	70	2	14	1	1	2	465
Goats milk	3	878	23	599	67335	50	3284	49895	5	114	4	29	1	1	8	1467
Growing up milk	4	220	10	256	21785	19	920	20053	2	42	2	6	0	0	2	238
Soya & mixed milk	3	2027	35	2588	54467	166	3102	50174	7	179	12	21	2	1	7	1400
All milks	48	626	23	614	41081	42	1937	31831	4	78	3	15	1	1	3	571
ALL BABY FOODS	201	1447	46	3487	26805	116	1274	16003	33	41	10	81	1	1	6	202

Table 3a: Mean intakes ($\mu\text{g}/\text{kg}$ bw/day) for all foods

Element	Mean intakes			
	0-3 ^a	4-6 ^a	7-9 ^a	10-12 ^a
Al	14.8	28.5	60.5	110.9
Cr	0.5	1.1	2.2	2.8
Mn	16.7	56.9	131.3	200.9
Fe	998.1	1143.5	1335.7	1553.4
Ni	1.2	2.4	4.8	7.2
Cu	54.2	58.5	61.9	76.1
Zn	809.3	832.2	789.5	844.0
As	0.1	0.6	1.4	1.9
Se	2.2	2.2	2.2	2.4
Cd	0.1	0.2	0.4	0.6
Sn	0.4	3.1	7.5	7.8
Sb	0.0	0.0	0.0	0.1
Hg	0.0	0.0	0.1	0.1
Pb	0.1	0.1	0.3	0.4
I	15.1	15.6	11.8	12.1

^a Age range in months.

Table 3b: Percentage relevant safety level for infants from mean intakes of all foods, milks and solid foods (%)

Element	Safety value for comparison ^c (µg/kg bodyweight/day)	Contribution to PTDI											
		0-3 ^{a,b}			4-6 ^a			7-9 ^a			10-12 ^a		
		All	Milk	Solid	All	Milk	Solid	All	Milk	Solid	All	Milk	Solid
Al¹⁴	140	11	11	N/a	20	9	11	43	7	37	79	6	73
Cr¹⁸	150	0	0	N/a	1	0	0	1	0	1	2	0	2
Mn	N/a	*	*	N/a	*	*	*	*	*	*	*	*	*
Fe²⁰	800	125	125	N/a	143	114	29	167	82	85	194	75	119
Ni²³	5	25	25	N/a	49	22	27	96	13	83	144	11	133
Cu¹⁸	160	34	34	N/a	37	30	7	39	18	21	48	16	31
Zn²⁵	1000	81	81	N/a	83	74	10	79	48	31	84	43	41
As¹⁶	2.14	5	5	N/a	27	5	22	66	3	63	90	3	87
Se²⁴	6.67	33	33	N/a	34	29	4	32	17	15	36	16	21
Cd¹⁷	1	8	8	N/a	19	8	11	41	4	37	58	4	54
Sn¹⁸	220	0	0	N/a	1	0	1	3	0	3	4	0	3
Sb¹⁵	6	0	0	N/a	1	0	0	1	0	0	1	0	1
Hg²²	0.23	11	11	N/a	17	10	6	29	6	23	38	5	32
Pb²¹	3.6	2	2	N/a	4	2	2	8	1	6	11	1	10
I¹⁹	17	89	89	N/a	92	86	6	69	51	18	71	47	24

^a Age range in months. ^b The maximum intake guideline does not apply to babies under 3 months and this value is only shown as a reference.

^c Please refer to the estimated exposure results section. *Safety guideline not available for manganese

Annex 1. Results for individual samples of baby foods and infant formulae

Sample code	Product as described	Type of sample	Concentration in sample (µg/kg)														
			Al	Cr	Mn	Fe	Ni	Cu	Zn	As	Se	Cd	Sn	Sb	Hg	Pb	I
Baby rice																	
S05-011-643	Pure baby rice	dry	239	10	5740	3254	<50	728	12822	276	29	<3	<15	<0.5	1	<2	<60
S05-011-652	Organic pure baby rice	dry	609	13	7601	2397	92	2614	12821	196	42	4	16	0.8	1	<2	<60
S05-011-653	Pure baby rice	dry	2284	54	8528	55394	88	2536	44190	222	35	6	<15	<0.5	<1	<2	<60
S05-011-658	First organic baby rice	dry	242	13	7615	2776	125	1377	10126	161	13	45	<15	<0.5	3	3	<60
S05-011-679	Organic baby rice	dry	484	21	9790	3693	124	1397	11516	150	26	34	<15	<0.5	2	2	<60
S05-011-713	Baby whole rice meal	dry	1809	25	12306	10200	113	1340	12418	197	15	40	<15	1	6	8	<60
S05-011-824	Organic baby rice	dry	369	<10	8190	3059	92	2602	12973	195	41	<3	<15	3.7	2	<2	<60
S05-011-832	Rice & milk	dry	203	36	4173	71359	68	698	18763	69	65	19	92	2.4	1	8	310
Biscuits																	
S05-011-646	Biscuits for babies and toddlers	dry	3439	77	4668	62080	123	1174	10903	4	91	8	<15	0.9	<1	3	150
S05-011-651	Farley's mini cheese biscuits	dry	1598	78	3281	12940	78	615	14400	36	51	11	30	1.7	1	7	<60
S05-011-657	Mini apple bears	dry	3735	64	4514	95324	52	890	4380	15	6	8	15	1.8	<1	16	<60
S05-011-663	15 organic gingerbread men	dry	19715	57	10466	20291	113	1528	9142	38	30	18	<15	1.2	<1	39	<60
S05-011-674	Organic jumbo bread sticks cheese	dry	1597	16	6987	10779	67	2093	15022	<2	111	11	<15	0.5	<1	4	<60
S05-011-773	Biscotti	dry	1959	17	5060	10258	59	1152	6651	3	55	8	<15	1.7	<1	5	<60
S05-011-818	Farley's mini fruit bears	dry	3503	44	3980	89487	65	866	4466	11	8	10	19	2	2	24	<60
S05-011-842	Honey cookies	dry	1021	<10	8229	11502	103	1640	10890	19	11	10	16	2.4	<1	9	90
Breakfast																	
S05-011-649	Sunrise banana breakfast	Breakfast	1816	54	5106	10008 2	318	1348	69169	47	117	9	<15	1.8	<1	75	290
S05-011-655	Fruity breakfast	dry	686	48	2421	59276	<50	841	10711	47	52	8	<15	0.8	2	13	210

S05-011-701	First organic banana porridge	dry	496	147	6255	11359	293	2208	9520	100	26	35	<15	0.9	2	27	<60
S05-011-708	Simply organic creamy breakfast cereal	wet	73	7	768	446	29	243	3629	10.4	14.3	4.9	<4	<0.1	0.5	1.9	90
S05-011-712	Creamy oat porridge	dry	1540	40	16171	79440	398	2152	63139	43	67	13	<15	1.6	2	5	210
S05-011-723	Creamed porridge with pear juice	wet	422	7	2387	4969	143	264	4197	4.9	12.6	<0.8	<4	0.5	0.7	1.8	60
S05-011-726	Organic creamed porridge breakfast	wet	100	<3	2599	1780	46	221	3544	1	8.9	1.4	<4	0.5	0.3	3	80
S05-011-743	Organic banana & peach breakfast	dry	1208	55	2978	32576	<50	973	18789	71	48	5	28	2.3	<1	4	530
S05-011-746	Fruity porridge	wet	737	28	2428	3275	65	479	1710	3.4	3.3	1.5	34	0.4	<0.3	3.2	<30
S05-011-747	Creamed oat porridge	wet	375	3	2087	1511	43	181	3015	2.6	6.8	1.2	71	0.2	<0.3	0.9	<30
S05-011-762	Fruit muesli	wet	260	13	1548	768	20	162	1811	6.8	5.5	1.4	30	<0.1	<0.3	0.9	160
S05-011-763	Creamed porridge	wet	71	8	2735	2477	64	255	2732	1.2	8.1	1.4	71	0.8	0.4	0.7	30
S05-011-785	Golden cornflakes with apricots	dry	1951	130	1652	80413	170	1174	12513	12	40	7	<15	1.2	<1	8	230
S05-011-795	Swiss baby muesli	dry	2355	24	23414	28503	368	3510	23043	19	33	19	<15	0.9	1	3	<60
S05-011-801	Apple & cherry muesli	wet	597	23	1950	2471	58	453	1673	2.6	6.1	1.8	22	0.4	<0.2	3.3	<30
S05-011-811	Apricot & strawberry breakfast	dry	4288	91	6086	17015	500	2718	14457	51	24	11	<15	1.4	5	12	<60
S05-011-813	Oaty porridge	dry	473	<10	29816	32773	892	3477	28685	3	49	24	<15	4.7	<1	<2	<60
S05-011-816	Oats & apple cereal	dry	1938	40	11693	81090	333	1766	58324	41	63	8	<15	2.1	1	5	140
S05-011-817	Peachy porridge	dry	1339	50	18976	90013	568	2711	64772	31	56	9	<15	1.8	1	5	190
S05-011-830	Organic banana porridge	dry	332	109	27813	32115	939	3870	23932	20	84	26	27	9.2	1	5	<60
S05-011-833	3 fruits wheat & milk	dry	760	81	4687	77328	97	920	17190	3	73	13	130	2.2	<1	12	280
S05-011-834	Fruit surprise breakfast	wet	185	49	2097	8107	97	371	2953	4.7	7.6	1.2	<4	0.6	<0.3	1.6	50
S05-011-835	Peach & pear porridge	wet	478	37	2438	8773	156	583	3849	1.3	10.3	0.9	<4	0.9	<0.3	2.6	70
S05-011-836	Honey pops	dry	526	109	10298	7707	543	1940	13321	72	31	37	<15	0.6	1	6	<60

S05-011-838	Organic rice porridge	dry	567	29	30629	11142	650	2506	16164	217	27	86	36	<0.5	3	<2	<60
S05-011-839	First organic apple & raspberry cereal	dry	2661	404	16278	10911	337	2730	9701	104	13	41	<15	3.5	3	26	<60
S05-011-840	First organic apple & banana muesli	dry	1408	240	6884	9202	201	2399	8956	85	23	42	19	2.3	3	34	<60
Cereal bars & rice cakes																	
S05-011-664	Banana cereal bars	dry	4374	70	8394	63594	150	1199	9544	37	20	13	<15	2.7	<1	5	80
S05-011-699	6 munch bars	dry	8190	30	18059	29269	640	4974	20747	12	49	20	25	1.4	1	6	<60
S05-011-702	Organic rice cakes orange	dry	1098	111	17512	9259	302	1849	11972	404	15	12	<15	2.4	3	6	<60
S05-011-750	Organic fruit & cereal bar - raspberry & apple	dry	4075	93	21934	20532	782	2768	11260	12	38	12	38	1.4	<1	7	<60
S05-011-752	Truly fruit bar - plum	dry	15626	122	6326	35305	733	2553	4422	6	20	7	83	4.7	1	25	<60
S05-011-779	Organic rice cakes	dry	834	46	18945	9810	300	2082	16366	272	18	36	<15	<0.5	6	6	<60
S05-011-798	100% fruit bar	dry	25388	166	3055	19196	316	2725	2634	25	15	5	<15	1.4	2	28	<60
S05-011-810	Chocolate rice sandwiches	dry	3774	118	16381	68684	504	2580	13868	106	24	45	<15	1.9	4	7	740
S05-011-841	Organic rice cakes -apple	dry	1483	129	17248	10317	441	1935	13450	220	20	39	<15	<0.5	4	8	80
Dessert																	
S05-011-666	Organic creamy rice pudding	dry	293	34	2376	27821	<50	849	17050	56	46	4	56	1.2	<1	<2	410
S05-011-677	Organic vanilla custard	wet	127	40	309	786	27	111	3425	8.4	12.3	2.5	228	<0.1	0.4	1	90
S05-011-680	Organic blueberry & yogurt dessert	wet	400	19	896	989	44	202	2199	13.7	6.1	4.1	139	0.5	0.4	2.4	120
S05-011-688	Strawberry cheesecake	wet	1351	23	1496	5933	27	191	1819	2.8	6	2.3	1039	0.8	<0.3	3.5	<20
S05-011-700	Organic strawberry sunrise	dry	843	35	1613	27549	<50	844	16380	7	37	9	<15	1.3	<1	4	670
S05-011-717	Organic apple & prune	wet	641	20	566	5261	44	550	530	0.8	<0.5	<0.8	<4	0.3	0.3	2.9	<20
S05-011-720	Fruit & yoghurt	dry	2119	65	7166	69790	114	936	52689	58	80	9	<15	1.3	2	20	260
S05-011-749	Chocolate mousse	wet	801	22	888	2412	216	649	3607	3.2	6.9	5.8	71	<0.1	<0.3	2	<30

S05-011-764	Chocolate & orange pudding	dry	12744	622	8473	122469	738	3669	54883	55	73	13	36	2.3	2	21	240
S05-011-765	Lemon curd pavlova	wet	186	10	246	2351	23	139	2180	1.7	32.8	<0.8	<4	1.4	0.3	1.8	70
S05-011-780	Fromage frais	wet	317	20	246	8776	16	248	5565	0.7	19.7	<0.8	<4	0.8	<0.3	1.9	170
S05-011-831	Apple & pear	wet	454	27	641	772	42	547	898	11.6	2.1	0.9	60	0.31	0.2	1.6	<30
Fish																	
S05-011-672	Mum's Own cod with potatoes	wey	192	44	317	2590	135	220	1257	109	67.3	5.6	8	<0.1	9.4	<0.5	420
S05-011-675	Fisherman's pie	wet	179	7	401	8498	<13	187	2968	87	47.2	3.9	38	0.5	2.4	2.7	50
S05-011-706	Tagliatelle, tomato & fish bake	wet	639	52	772	3430	50	389	1924	60.3	33.7	7.3	<4	0.3	9.6	2.7	20
S05-011-709	Tagliatelle with fish in a creamy broccoli sauce	wet	145	6	745	2370	13	301	1854	84.3	42.7	3	208	0.3	12	2.9	<20
S05-011-716	Vegetables & cod	wet	1475	26	1215	9221	171	882	4451	163	34.3	7.7	56	0.4	5.8	3.9	100
S05-011-739	Salmon & spinach pasta bake	wet	532	13	702	2449	15	369	2609	284	21.1	7.2	49	<0.1	5.3	1.7	40
S05-011-819	Carrots & hake	wet	129	5	696	2467	25	390	2321	228	22	14.5	<4	0.5	4.4	14	120
Fruit puree																	
S05-011-673	Organic blackcurrant puree	wet	1563	35	381	3761	24	773	381	2.4	1.2	<0.5	<3	0.31	0.6	4	<20
S05-011-687	Organic apple puree	wet	1319	25	778	2252	28	541	488	6.2	1	4	19	0.62	0.2	11.9	<20
S05-011-703	Organic fruit pots	wet	928	18	544	2147	17	607	402	3.6	1.1	<0.5	<3	1.22	<0.2	2.2	<20
S05-011-705	Simply fruit organic strawberry & apple	wet	4406	76	1815	3797	54	459	362	2.2	0.7	2.9	<3	0.31	0.2	4.8	<20
S05-011-741	William Christ pears	wet	402	15	579	819	94	699	1076	7.5	0.9	2.6	9	0.3	<0.3	3.2	<30
S05-011-755	Sunshine orange	dry	1418	63	2675	80000	69	881	13079	48	46	8	<15	1	<1	4	350
S05-011-759	Truly fruits pear and pineapple	wet	666	20	4741	1771	89	1406	1258	6	1.4	4.8	11	0.33	0.4	2.7	<30
Meat																	
S05-011-647	Spaghetti bolognese	dry	2835	112	4321	87288	151	2700	21498	64	97	31	<15	1.8	2	11	<60
S05-011-676	Organic potato,	wet	218	54	1201	3904	153	482	3983	50.7	24.7	5.6	214	0.3	1	1.5	<20

	chicken, sweetcorn & pineapple																
S05-011-678	Organic garden vegetables with steak	wet	799	44	1004	6139	154	590	6724	1.9	8.5	10.2	67	0.1	0.3	4.5	<20
S05-011-681	Organic baked beans & ham	wet	3710	52	1720	7732	196	993	5856	9.3	20.3	5.7	202	0.2	0.4	3.4	<20
S05-011-689	Mum's own Carribbean casserole with pork	wet	455	49	544	6603	138	468	2399	2.2	11.1	3	<4	0.3	0.4	1.6	<20
S05-011-690	Sunday lunch	wet	200	12	969	2778	25	342	3061	18	13.6	5.7	52	<0.1	<0.3	<0.5	<20
S05-011-704	Mum's Own cottage pie	wet	800	28	533	6525	44	416	5938	3.3	14.1	5.3	<4	0.3	0.4	4.3	20
S05-011-707	Organic vegetable & turkey casserole	wet	236	8	860	4156	33	417	5098	0.8	15.6	19.5	<4	0.2	<0.3	7	<20
S05-011-711	Mum's Own sweet & sour chicken	wet	730	40	4934	7973	106	531	2274	7.2	14.5	12.4	217	0.2	0.4	3.3	<20
S05-011-718	Vegetables & turkey with mash	dry	2884	194	8424	88969	471	2013	63291	126	96	30	24	1.2	3	8	220
S05-011-725	Spaghetti hoops & sausages	wet	1877	40	1205	15000	102	642	2919	1.4	14.9	12.5	98	0.5	<0.3	2.2	<30
S05-011-740	Vegetables with chicken & rice	wet	314	7	1224	2776	43	371	3000	13.9	10.7	16.8	6	0.2	<0.3	5.2	<30
S05-011-744	Tomato & chicken pasta bake	wet	576	25	1023	6933	36	465	2814	5	15.2	5.9	<4	0.6	<0.3	3.9	<30
S05-011-748	Vegetable & chicken casserole	wet	219	5	702	4841	21	209	2217	6.1	8.3	5.3	38	0.5	<0.3	5.3	<30
S05-011-751	Rosie's orchard chicken	wet	586	36	893	2570	46	603	2959	9.2	10.7	1.8	61	<0.1	<0.3	0.8	<30
S05-011-756	Seasonal vegetables & chicken	dry	2274	181	5585	88701	440	1839	15905	54	115	40	<15	1.3	2	5	100
S05-011-758	Roast turkey dinner	dry	2115	150	4100	90962	156	1923	15716	72	50	28	<15	1.4	3	16	70
S05-011-761	Organic tangy vegetables with chicken	wet	2172	14	1506	4236	58	597	3321	16.8	14.9	7.1	35	0.5	0.3	6.3	<30
S05-011-767	Sweet potato & beef mince pie	wet	393	48	971	9965	58	614	5086	2.2	10.9	3.5	<4	<0.1	0.3	2.1	<30
S05-011-768	Tender carrots	wet	343	130	940	2414	78	251	3404	34.9	14.5	8.5	147	0.2	0.5	5	50

	& chicken																
S05-011-769	Organic cottage pie	wet	162	20	561	3505	35	429	4884	1.3	7.3	9.3	<4	0.2	<0.3	3.6	<30
S05-011-770	Organic Lancashire hotpot	wet	2019	30	1077	5037	82	634	4673	8.8	5.6	7.8	127	0.4	<0.3	4.1	<30
S05-011-771	Organic vegetable with rice and chicken	wet	3828	30	1077	4688	61	431	3115	13.9	14.6	6.9	<4	0.4	<0.3	7	<30
S05-011-772	Potato, parsnip & beef	wet	195	34	531	4458	39	448	2999	1.2	4.7	6.5	<4	<0.1	0.4	1.3	40
S05-011-774	Carrot, parsnip & chicken	wet	233	36	442	2194	24	223	2339	1.6	15.7	2.8	<4	0.2	0.3	1.7	50
S05-011-778	Beef purée	wet	197	26	50	8420	113	255	19650	1.2	25	<0.8	6	<0.1	<0.3	0.6	100
S05-011-781	Organic fine garden vegetables with creamy chicken	wet	356	24	1036	2343	32	371	4008	12.3	18.2	5.1	<4	0.3	0.3	2.7	<30
S05-011-782	Carrots & lamb with rosemary	wet	987	7	621	8011	15	286	3337	8.4	4.8	2.1	46	0.4	<0.3	6.6	<30
S05-011-784	Pasta bolognese	wet	478	7	1006	11630	27	451	4463	2	9.7	6.9	168	0.5	<0.3	4.7	<30
S05-011-787	Garden vegetables with chicken	wet	113	6	268	7046	<13	177	1830	1.1	7.2	4.2	72	0.5	<0.3	2.3	<30
S05-011-788	Pumpkin, swede & lamb	wet	660	13	560	6523	40	329	3413	3.9	9.2	4.1	<4	0.4	0.3	1.3	<30
S05-011-789	Spaghetti bolognese	wet	1064	13	988	9492	43	723	4176	2.8	24.4	8.5	<4	0.9	<0.3	3.2	<30
S05-011-790	Casserole with vegetables & lean beef	wet	353	42	583	9211	32	468	3773	3.3	9.4	15.4	<4	0.2	<0.3	2.2	<30
S05-011-791	Minted vegetables with lamb	wet	232	32	821	9672	68	545	4867	1.2	4.5	6	38	0.4	<0.3	2.6	<30
S05-011-792	Vegetable & chicken noodle	wet	786	36	940	7947	42	564	2897	3.7	15.4	9.2	162	0.5	<0.3	3.2	<30
S05-011-793	Vegetable hotpot with meatballs	wet	587	16	798	8977	51	629	4049	3.7	14.9	6.8	7	0.5	1.2	7.2	<30
S05-011-800	Frozen organic cottage pie	wet	214	13	352	5927	39	669	11496	3.9	31.2	3.6	9090	0.6	0.4	2.3	<30
S05-011-803	Organic spaghetti with tomatoes & mozzarella	wet	1114	33	825	2441	44	523	3748	6.2	9.3	6.7	132	0.1	0.4	3.2	30
S05-011-804	Organic butternut squash & chicken	wet	1132	40	837	2708	54	382	2656	14.7	12.9	6.2	<4	0.3	0.3	4.1	<30

S05-011-806	Organic chunky vegetable & beef casserole	wet	391	24	880	4443	51	530	5774	8.2	10.3	8.4	<4	0.3	0.4	4.3	<30
S05-011-808	Golden vegetable & turkey bake	wet	152	41	1039	3779	48	568	4987	48	24.6	6.6	29	0.2	1.4	2.3	<30
S05-011-809	Organic Spaghetti bolognese	wet	1890	27	935	4206	34	579	4309	7.2	8.5	6.4	<4	0.2	<0.3	2.5	<30
S05-011-812	Shepherds pie with lamb	dry	4097	99	5577	79227	123	2049	54809	46	57	14	<15	1.2	2	13	60
S05-011-825	Roast pork & apple	dry	2582	96	3746	83137	141	1905	11443	56	64	29	<15	2.1	2	8	<60
S05-011-826	Organic vegetable & chicken	dry	783	219	5547	12802	165	1908	23658	136	66	44	<15	0.6	4	13	190
Pasta/dairy																	
S05-011-829	Cauliflower cheese pasta & potatoes	wet	166	14	785	5316	37	254	3738	2.3	17.4	4.4	127	0.3	<0.3	0.9	40
S05-011-648	Cheesy vegetable pasta	dry	3928	98	6653	74396	139	1919	58110	93	93	16	<15	1.4	1	9	220
S05-011-710	Cheesy parsnip & potato bake	wet	213	13	624	8721	20	176	3646	4.9	8.4	2.9	78	0.5	0.5	3.4	20
S05-011-724	Organic vegetable lasagne	wet	1800	17	1265	3539	41	819	5840	7.9	14.5	10	187	0.2	0.3	3.1	<30
S05-011-753	Cauliflower cheese florets	wet	95	11	1150	1524	24	243	5225	12.5	31.4	3.8	98	<0.1	<0.3	2.1	<30
S05-011-760	Cheesy vegetables & pasta	wet	1290	20	573	2382	41	343	3359	0.8	10.3	4.2	93	0.3	<0.3	2.7	<30
S05-011-766	Sweet vegetable pasta	wet	344	21	576	5373	27	307	3733	1.6	11.8	4	<4	0.2	0.3	5.8	30
S05-011-775	Organic creamy vegetable pasta	wet	233	6	1629	2894	28	440	3565	2.1	8.8	2.6	<4	0.3	<0.3	3.8	<30
S05-011-776	Creamy macaroni with sweetcorn	wet	448	18	411	1589	32	243	2116	1.7	9.9	4.9	<4	<0.1	<0.3	1.9	<30
S05-011-777	Seaside pasta	wet	656	13	452	4770	22	343	5184	34.1	79.6	8.9	16	0.1	11.5	2.1	50
S05-011-783	Tomato & courgette fusilli	wet	1039	86	680	2864	85	582	2382	1.1	9.3	9	<4	0.2	<0.3	3.3	<30
S05-011-799	Frozen organic pasta with vegetables & cheese	wet	398	9	1243	3129	22	539	8740	1.1	27.6	4.1	10	0.1	<0.3	2	220

S05-011-807	Broccoli & cheese bake	wet	277	20	620	1863	28	337	4493	10.4	8.8	6	31	0.3	1	1.6	<30
S05-011-814	Cauliflower & broccoli cheese	dry	2440	60	6315	74045	95	1785	60221	96	72	14	<15	2	2	9	200
S05-011-820	Italian pastas	wet	581	63	761	3023	59	555	2822	1.9	15.9	12.4	<4	<0.1	0.3	2.6	<30
S05-011-837	Pure rice fusilli	dry	722	14	10281	4444	275	1883	17015	164	41	42	36	0.8	2	20	<60
Rusks																	
S05-011-650	Farley's original rusks	dry	4455	49	5299	90147	52	1108	5490	5	17	13	<15	1	<1	5	<60
S05-011-684	Organic rusks - apricot flavoured	dry	920	14	2436	10160	<50	1220	5290	6	26	11	<15	0.7	<1	14	<60
S05-011-754	Farley's rusks reduced sugar original	dry	3700	49	4102	99777	52	976	6513	5	14	12	<15	1.1	<1	5	<60
S05-011-786	Farley's rusks reduced sugar gluten free	dry	3685	63	4310	106628	163	2323	7071	10	33	11	42	3.7	<1	33	230
S05-011-823	Organic growing up rusks	dry	763	<10	1796	6757	<50	544	3360	<2	175	7	<15	1.2	<1	<2	<60
S05-011-827	Farley's rusks - reduced sugar banana	dry	3927	48	5492	93734	82	1086	6917	6	20	11	<15	1.4	<1	7	<60
S05-011-828	Organic Rusks	dry	837	325	2463	8497	188	1176	5101	5	25	8	<15	0.8	<1	17	<60
Vegetables																	
S05-011-659	Organic mashed potato with rosemary	dry	378	88	4255	18606	137	3289	9997	<2	9	87	<15	<0.5	<1	3	<60
S05-011-682	Mother's recipe minted vegetable medley	wet	1893	41	1934	3788	88	534	3519	12.9	13.4	3.3	87	0.2	1	4	50
S05-011-685	Simply vegetables organic carrot & sweetcorn	wet	763	15	629	2972	20	407	2114	0.7	10	11	<3	0.1	0.2	1.8	<20
S05-011-794	Creamy vegetable curry	wet	1762	26	1263	4594	51	502	2797	8.9	8	8.6	<4	<0.1	0.4	7.6	30
S05-011-805	Organic tender carrots & potatoes	wet	111	7	523	1405	30	373	1585	0.8	1.5	10.7	<4	0.2	0.3	3.7	<30
S05-011-815	Mediterranean vegetables with rice	dry	4621	90	6121	81734	250	2417	59289	63	131	15	43	1.8	2	8	80
S05-011-742	Mixed vegetables	wet	403	13	618	2297	56	409	1655	4	3.8	7.7	<4	0.36	0.2	5.1	<30

Infant formulae (first milk)																	
S05-011-644	Premium 1	dry	596	19	503	37982	<50	3103	34688	4	129	4	<15	0.6	<1	<2	640
S05-011-645	Aptamil first 1	dry	666	46	503	50247	<50	2339	31184	5	111	4	<15	<0.5	<1	3	610
S05-011-654	Organic first infant milk	dry	871	34	344	53442	<50	891	41039	3	57	<3	<15	0.9	<1	3	520
S05-011-656	First milk	dry	905	36	523	50773	<50	3048	27035	9	61	<3	32	3.1	<1	6	380
S05-011-667	Organic first milk	dry	151	24	196	29546	<50	2696	31523	3	44	5	<15	0.6	<1	3	610
S05-011-693	Gold	dry	786	16	533	45803	62	2490	48492	3	134	<3	37	0.9	<1	3	590
S05-011-696	Omneo comfort	dry	1086	24	2771	31181	<50	2882	36493	17	148	<3	<15	2.3	<1	3	760
S05-011-722	Ready to use SMA gold	wet	48	3	50	6912	<8	383	5674	0.4	20.4	<0.5	<3	0.08	<0.2	<0.3	60
S05-011-731	Ready to use first milk	wet	56	3	48	7008	<8	398	4390	<0.3	7.1	<0.5	<3	0.11	<0.2	0.5	90
S05-011-733	Ready made premium 1	wet	74	2	37	4319	<8	327	4397	0.4	15.2	<0.5	<3	0.12	<0.2	0.4	110
S05-011-738	Ready to use Aptamil first 1	wet	71	2	67	7043	<8	317	4630	0.5	15	<0.5	<3	0.08	1	0.4	100
S05-011-796	Organic infant formula	dry	1154	31	671	86677	<50	3847	46667	25	32	<3	<15	1	<1	7	360
S05-011-802	Staydown	dry	457	10	513	63162	<50	2581	51483	3	158	<3	29	1.1	<1	3	950
S06-010-939	Organic infant formula 1	dry	<100	<10	152	36871	<50	1080	36929	4	49	<3	<15	0.5	<1	3	520
Infant formulae (second milk)																	
S05-011-660	2 Plus	dry	523	31	483	34061	<50	2522	40128	3	129	4	<15	<0.5	<1	3	930
S05-011-661	Farley's second milk	dry	188	19	336	54535	<50	3354	29664	6	61	<3	31	3.3	<1	<2	950
S05-011-662	Organic second milk	dry	1019	23	212	31655	<50	1665	30893	2	44	<3	<15	0.9	<1	3	940
S05-011-665	Organic follow on milk	dry	1271	51	767	89557	<50	1449	51783	6	74	<3	<15	2.2	<1	5	540
S05-011-670	Aptamil extra	dry	355	52	655	40640	<50	2455	47019	4	123	4	<15	0.5	<1	2	700
S05-011-671	Milumil	dry	855	41	757	47057	<50	3375	41470	4	144	5	<15	<0.5	<1	4	1110
S05-011-691	White	dry	1336	14	550	50750	<50	2910	53150	2	194	<3	37	<0.5	<1	2	650
S05-011-719	Ready made 2 plus	wet	50	2	41	4640	<8	343	5321	0.8	17.5	<0.5	<3	0.12	0.4	0.4	150
S05-011-727	Ready to use SMA white	wet	45	2	68	7428	<8	343	6073	0.4	18.6	<0.5	<3	0.08	<0.2	0.9	60
S05-011-735	Ready to use second milk	wet	45	3	47	9823	<8	404	3947	<0.3	5.9	<0.5	<3	0.08	<0.2	0.4	70
S05-011-736	Ready to use Aptamil extra 2	wet	59	3	45	7091	<8	258	5965	0.6	14.6	<0.5	<3	0.08	<0.2	0.4	110
Follow on milk																	
S05-011-683	Aptamil forward 3	dry	586	47	914	75650	53	3415	68470	8	132	6	<15	<0.5	<1	4	640
S05-011-686	Step up 3	dry	1092	49	859	65186	<50	3117	61581	2	159	5	<15	<0.5	<1	2	680
S05-011-692	Progress	Dry	386	19	336	82018	<50	4190	71380	3	171	<3	53	<0.5	<1	3	770

S05-011-695	Omneo comfort 2	Dry	2423	73	2862	67967	63	3701	47965	11	103	<3	<15	4.7	<1	<2	860
S05-011-698	Farley's follow-on milk	Dry	1247	38	655	77314	71	3295	30905	9	82	<3	28	4.4	<1	<2	840
S05-011-730	Ready made step-up 3	Wet	149	3	104	12265	<8	459	8848	0.9	15.2	<0.5	<3	0.15	<0.2	1.1	150
S05-011-732	Ready to use Aptamil forward 3	Wet	116	4	97	12343	<8	486	8858	0.7	14.9	<0.5	<3	0.08	<0.2	1.1	150
S05-011-734	Ready made next steps 4	Wet	100	3	86	11639	<8	478	9284	1.3	15	0.5	<3	0.15	<0.2	0.5	160
S05-011-737	Ready to use follow on milk	Wet	86	4	62	12942	<8	403	4787	<0.3	9.1	<0.5	<3	0.27	<0.2	0.7	70
S05-011-745	Ready to use SMA progress	Wet	61	5	30	12647	12	667	9351	<0.3	16	<0.5	<3	0.1	<0.2	0.4	110
S05-011-797	Organic follow-on milk	dry	2283	89	536	89601	<50	3677	41533	21	100	<3	<15	2.6	<1	6	380
S05-011-822	Follow-on milk	dry	132	36	323	52796	<50	1262	31256	2	49	<3	<15	<0.5	1	4	600
S06-010-940	Organic infant follow-on formula 2	dry	578	16	387	58775	<50	469	36881	4	47	<3	<15	2	<1	4	640
Growing up milk																	
S05-011-697	Next steps 4	dry	564	29	785	55127	<50	2940	56065	5	114	6	<15	<0.5	<1	4	610
S05-011-721	Organic growing up milk	wet	<17	3	44	9399	<8	25	7655	0.4	8.1	<0.5	<3	0.08	<0.2	0.5	60
S05-011-728	Growing up milk	wet	137	3	97	11148	<8	358	8197	1.2	22.2	<0.5	<3	0.25	0.2	0.9	140
S05-011-729	Aptamil growing up milk	wet	162	3	98	11465	<8	356	8293	1.6	24	<0.5	<3	0.14	<0.2	1	140
Other milks																	
S05-011-694	Goat milk based growing-up milk	dry	1412	16	694	62820	<50	3895	45361	5	160	<3	44	<0.5	<1	9	1120
S05-011-714	Goat milk infant nutrition	dry	986	21	847	74607	<50	4608	53454	4	119	<3	28	0.5	1	10	680
S05-011-715	Goat milk organic nutrition	dry	235	33	255	64577	<50	1349	50871	5	62	6	<15	0.6	1	5	2600
S05-011-668	InfaSoy	dry	2246	41	2941	49928	160	3266	50608	7	169	15	<15	2.5	<1	5	1300
S05-011-669	Wysoy	dry	1808	29	2234	52105	171	2937	49740	7	189	8	27	1.6	<1	8	1500
S05-011-821	LF	dry	456	25	3344	61367	58	2177	46528	6	152	<3	19	4.5	<1	8	710

Annex 2. Details for individual samples of baby foods and infant formulae collected

Sample code	Product as described	Brand	Best before	Batch code	Date purchased	Retail Outlet	Address 1	Address 2	Postcode
S05-011-643	Pure baby rice	Cow & Gate	05/09/07	019776 019777	21.11.05	Tesco	Fordham Road	Newmarket	CB8 7AH
S05-011-644	Premium 1	Cow & Gate	19/08/2007	(2) W-231-05 024574	21.11.05	Tesco	Fordham Road	Newmarket	CB8 7AH
S05-011-645	Aptamil first 1	Milupa	07/04/2007	(1) W-281-05 027309	21.11.05	Tesco	Fordham Road	Newmarket	CB8 7AH
S05-011-646	Biscuits for babies and toddlers	Cow & Gate	11/03/07	L5252	21.11.05	Tesco	Fordham Road	Newmarket	CB8 7AH
S05-011-647	Spaghetti bolognese	Cow & Gate	08/12/06	020188 020189	21.11.05	Tesco	Fordham Road	Newmarket	CB8 7AH
S05-011-648	Cheesy vegetable pasta	Heinz	1st JAN 2007	528D	21.11.05	Tesco	Fordham Road	Newmarket	CB8 7AH
S05-011-649	Sunrise banana breakfast	Heinz	1st NOV 2006	534C	21.11.05	Tesco	Fordham Road	Newmarket	CB8 7AH
S05-011-650	Farley's original rusks	Heinz	01 04 2007	5297	21.11.05	Tesco	Fordham Road	Newmarket	CB8 7AH
S05-011-651	Farley's mini cheese biscuits	Heinz	30.06.2006	B 5274	21.11.05	Tesco	Fordham Road	Newmarket	CB8 7AH
S05-011-652	Organic pure baby rice	Heinz	1st MAR 2007	536A	21.11.05	Tesco	Fordham Road	Newmarket	CB8 7AH
S05-011-653	Pure baby rice	Heinz	1st MAR 2007	536CX	21.11.05	Tesco	Fordham Road	Newmarket	CB8 7AH
S05-011-654	Organic first infant milk	Hipp	14.07.2006	L5178	21.11.05	Tesco	Fordham Road	Newmarket	CB8 7AH
S05-011-655	Fruity breakfast	Cow & Gate	20/12/06	003716 003717	21.11.05	Tesco	Fordham Road	Newmarket	CB8 7AH
S05-011-656	First milk	Farley's	1st SEP 2007	539E	21.11.05	Tesco	Fordham Road	Newmarket	CB8 7AH
S05-011-657	Mini apple bears	Heinz	12 07 06	5285	21.11.05	Tesco	Fordham Road	Newmarket	CB8 7AH
S05-011-658	First organic baby rice	Organix	JANUARY 07	27926285-A 27926286-A 50129-C	23.11.05	Sainsbury's	Coldhams Lane	Cambridge	CB1 3HP
S05-011-659	Organic mashed potato with rosemary	Hipp	03/2007	5269 FS1 1/05 GB2700.41 02 4336EM	23.11.05	Sainsbury's	Coldhams Lane	Cambridge	CB1 3HP
S05-011-660	2 Plus	Cow & Gate	26/09/2007	(1) W-269-05 003560	23.11.05	Sainsbury's	Coldhams Lane	Cambridge	CB1 3HP
S05-011-661	Farley's second milk	Heinz	1st JUN 2007	536C	23.11.05	Sainsbury's	Coldhams Lane	Cambridge	CB1 3HP
S05-011-662	Second milk	Cow & Gate	05/09/2007	(2) W-248-05	23.11.05	Sainsbury's	Coldhams Lane	Cambridge	CB1 3HP

		Organic		000586					
S05-011-663	15 organic gingerbread men	Organix Goodies	31 08 2006	L239B	23.11.05	Sainsbury's	Coldhams Lane	Cambridge	CB1 3HP
S05-011-664	Banana cereal bars	Heinz	16.07.06	5292A	23.11.05	Sainsbury's	Coldhams Lane	Cambridge	CB1 3HP
S05-011-665	Organic follow on milk	Hipp	12.07.2006	L5173	23.11.05	Sainsbury's	Coldhams Lane	Cambridge	CB1 3HP
S05-011-666	Organic creamy rice pudding	Hipp	12.2006	L65295046016	23.11.05	Sainsbury's	Coldhams Lane	Cambridge	CB1 3HP
S05-011-667	First milk	Cow & Gate Organic	31/05/2007	(1) W-151-05 007516	23.11.05	Sainsbury's	Coldhams Lane	Cambridge	CB1 3HP
S05-011-668	Infasoy	Cow & Gate	06-09-2007	41 200332 001531	23.11.05	Sainsbury's	Coldhams Lane	Cambridge	CB1 3HP
S05-011-669	Wysoy	SMA	28 08 2008	VSL163008 R 021586	23.11.05	Sainsbury's	Coldhams Lane	Cambridge	CB1 3HP
S05-011-670	Aptamil extra	Milupa	05/03/2007	(1) W-248-05 019010	23.11.05	Sainsbury's	Coldhams Lane	Cambridge	CB1 3HP
S05-011-671	Milumil	Milupa	10/05/2007	(1) W-130-05 001623	23.11.05	Sainsbury's	Coldhams Lane	Cambridge	CB1 3HP
S05-011-672	Cod with potatoes	Heinz Mum's Own	11/2006	V91A 5118	23.11.05	Sainsbury's	Coldhams Lane	Cambridge	CB1 3HP
S05-011-673	Organic blackcurrant puree	Organix Goodies	30 06 06	M	23.11.05	Sainsbury's	Coldhams Lane	Cambridge	CB1 3HP
S05-011-674	Organic jumbo bread sticks cheese	Organix	AUG 06	5192	23.11.05	Sainsbury's	Coldhams Lane	Cambridge	CB1 3HP
S05-011-675	Fisherman's pie	Heinz	01-2007	K11 1605	23.11.05	Sainsbury's	Coldhams Lane	Cambridge	CB1 3HP
S05-011-676	Organic potato, chicken, sweetcorn & pineapple	Sainsbury's Organic Baby Food	JUL 2007	002 1100 PDT 2001	23.11.05	Sainsbury's	Coldhams Lane	Cambridge	CB1 3HP
S05-011-677	Organic vanilla custard	Sainsbury's Organic Baby Food	JUL 2006	003 1096 PCK 1001	23.11.05	Sainsbury's	Coldhams Lane	Cambridge	CB1 3HP
S05-011-678	Organic garden vegetables with steak	Sainsbury's Organic Baby Food	JUL 2007	2402 0204PDU 011	23.11.05	Sainsbury's	Coldhams Lane	Cambridge	CB1 3HP
S05-011-679	Organic baby rice	Boots	MAR 2007	28856345-A 28856332-A 50309-B	26.11.05	Boots	41-42 Grafton Centre	Cambridge	CB1 1PS
S05-011-680	Organic blueberry & yogurt dessert	Boots	APR 2006	7257PFX 001 0101	26.11.05	Boots	41-42 Grafton Centre	Cambridge	CB1 1PS
S05-011-681	Organic baked beans & ham	Boots	JUL 2007	7236PDE 008 0502	26.11.05	Boots	41-42 Grafton Centre	Cambridge	CB1 1PS
S05-011-682	Mother's recipe minted vegetable medley	Boots	MAR 2007	0319PU8:007 0701	26.11.05	Boots	41-42 Grafton Centre	Cambridge	CB1 1PS

S05-011-683	Aptamil forward 3	Milupa	02/04/2007	(2) W-276-05 016399	26.11.05	Boots	41-42 Grafton Centre	Cambridge	CB1 1PS
S05-011-684	Organic rusks - apricot flavoured	Boots	07/2006	L5213	26.11.05	Boots	41-42 Grafton Centre	Cambridge	CB1 1PS
S05-011-685	Organic carrot & sweetcorn	Heinz Simply Vegetables	14 MAR 06	None declared	26.11.05	Boots	41-42 Grafton Centre	Cambridge	CB1 1PS
S05-011-686	Step up 3	Cow & Gate	28/07/2006	(1)	26.11.05	Superdrug	38 Fitzroy Street	Cambridge	CB1 1ER
S05-011-687	Organic apple puree	Hipp	12/2006	A L23851 N D Nr 016513 D Nr 016518 D Nr 016574 D Nr 016644	26.11.05	Superdrug	38 Fitzroy Street	Cambridge	CB1 1ER
S05-011-688	Strawberry cheesecake	Heinz	05-2006	YQ1 3144	26.11.05	Superdrug	38 Fitzroy Street	Cambridge	CB1 1ER
S05-011-689	Caribbean casserole with pork	Heinz Mum's Own	10/2006	V35A 5208	26.11.05	Superdrug	38 Fitzroy Street	Cambridge	CB1 1ER
S05-011-690	Sunday lunch	Cow & Gate	04.07.2008	104813	26.11.05	Superdrug	38 Fitzroy Street	Cambridge	CB1 1ER
S05-011-691	White	SMA	28 10 2007	L4S304K09 N 025528	26.11.05	Mothercare	26-26a Grafton Centre	Cambridge	CB1 1PS
S05-011-692	Progress	SMA	28 05 2008	05H 104R26 Z 021777	26.11.05	Mothercare	26-26a Grafton Centre	Cambridge	CB1 1PS
S05-011-693	Gold	SMA	28 06 2007	H 019130 N5J124G06	26.11.05	Mothercare	26-26a Grafton Centre	Cambridge	CB1 1PS
S05-011-694	Goat milk based growing-up milk	Nanny Care	07 11 2007	Production 2004 07 12 1707 N20029 4194	30.11.05	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-695	Omneo comfort 2	Cow & Gate	17/12/2006	(2) W-170-05 013500	30.11.05	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-696	Omneo comfort	Cow & Gate	07-07-2006	None declared	30.11.05	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-697	Next steps 4	Cow & Gate	25/10/2007	(1) W-298-05 002647	30.11.05	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-698	Farley's follow-on milk	Heinz	1st SEP 2007	535D	30.11.05	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-699	6 munch bars	Organix Goodies	AUG 06	5/230	30.11.05	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-700	Organic strawberry sunrise	Hipp	01.2007	L65317037 007	30.11.05	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-701	First organic banana porridge	Organix	FEBRUARY 07	50202-B 27767181-A	30.11.05	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-702	Organic rice cakes orange	Organix	05/2006	L5172-C	30.11.05	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-703	Organic fruit pots	Hipp	20 04 06	E	30.11.05	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-704	Cottage pie	Heinz Mum's	01/2007	V42A 5210	30.11.05	Waitrose	Fred Archer	Newmarket	CB8 8NY

		Own					Way		
S05-011-705	Organic strawberry & apple	Heinz Simply Fruit	01 SEP 06	None declared	30.11.05	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-706	Tagliatelle, tomato & fish bake	Hipp Toddler Meal	04/2007	D Nr008376 D Nr008309 L25366N	30.11.05	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-707	Organic vegetable & turkey casserole	Hipp	08/2007	D Nr074600 D Nr074380 D Nr074492 L24889N	30.11.05	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-708	Creamy breakfast cereal	Heinz Simply Organic	10/2006	5221 071A	30.11.05	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-709	Tagliatelle with fish in a creamy broccoli sauce	Hipp	02/2007	L24934 N D Nr012961 D Nr013022	30.11.05	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-710	Cheesy parsnip & potato bake	Heinz	01-2007	E13 1395	30.11.05	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-711	Sweet & sour chicken	Heinz Mum's Own	09/2006	V31A 5104	01.12.05	Spar	Capuchin Court	Cambridge	CB1 9GP
S05-011-712	Creamy oat porridge	Heinz	1st NOV 2006	522B R14	01.12.05	Spar	Capuchin Court	Cambridge	CB1 9GP
S05-011-713	Baby whole rice meal	Biobim	29 12 06	None declared	17.12.05	Fresh & Wild	32 - 40 Stoke Newington	London	N16 0LU
S05-011-714	Goat milk infant nutrition	Nanny	2008/03/06	1719 9905	17.12.05	Fresh & Wild	32 - 40 Stoke Newington	London	N16 0LU
S05-011-715	Goat milk organic nutrition	Babynat	10/10/2007	UE 283	17.12.05	Fresh & Wild	32 - 40 Stoke Newington	London	N16 0LU
S05-011-716	Vegetables & cod	Babynat	01/06/07	421	17.12.05	Fresh & Wild	32 - 40 Stoke Newington	London	N16 0LU
S05-011-717	Organic apple & prune	Babynat	07/09/07	414	17.12.05	Fresh & Wild	32 - 40 Stoke Newington	London	N16 0LU
S05-011-718	Vegetables & turkey with mash	Heinz	1st SEPT 2006	509CP	02.01.06	Co-op	5 North Street	Cambridge	CB5 0BA
S05-011-719	Ready made 2 plus	Cow & Gate	29-06-06	1B	02.01.06	Co-op	5 North Street	Cambridge	CB5 0BA
S05-011-720	Fruit & yoghurt	Heinz	1st Sept 2007	Lot 538D	02.01.06	Co-op	5 North Street	Cambridge	CB5 0BA
S05-011-721	Organic growing up milk	Hipp	06.07.06	EMA 00184 7	07.01.06	Sainsbury's	51 Townmead Road	London	SW6 2SY
S05-011-722	Ready to use SMA gold	SMA	22 Sep 06	06130D	02.01.06	Co-op	5 North Street	Cambridge	CB5 0BA
S05-011-723	Creamed porridge with pear juice	Heinz Mum's Own	12/2006	5278 V66A	02.01.06	Co-op	5 North Street	Cambridge	CB5 0BA
S05-011-724	Organic vegetable lasagne	Hipp	03/2007	D L25326N NR195768 NR253599	02.01.06	Co-op	5 North Street	Cambridge	CB5 0BA
S05-011-725	Spaghetti hoops & sausages	Heinz	01-2007	NZ3 1745	02.01.06	Co-op	5 North Street	Cambridge	CB5 0BA

S05-011-726	Organic creamed porridge breakfast	Hipp	03/2006	D L22932N NR166593 NR166574 NR167001	02.01.06	Co-op	5 North Street	Cambridge	CB5 0BA
S05-011-727	Ready to use SMA white	SMA	22 OCT 06	05089D	07.01.06	Sainsbury's	51 Townmead Road	London	SW6 2SY
S05-011-728	Growing up milk	Cow & Gate	13 06 06	05H56 256	07.01.06	Sainsbury's	51 Townmead Road	London	SW6 2SY
S05-011-729	Aptamil growing up milk	Milupa	28 07 06	16H44:300	07.01.06	Sainsbury's	51 Townmead Road	London	SW6 2SY
S05-011-730	Ready made step-up 3	Cow & Gate	30-06-06	D	07.01.06	Sainsbury's	51 Townmead Road	London	SW6 2SY
S05-011-731	Ready to use first milk	Farley's	08 2006	L540B 1	07.01.06	Sainsbury's	51 Townmead Road	London	SW6 2SY
S05-011-732	Ready to use Aptamil forward 3	Milupa	20-07-06	2A	07.01.06	Sainsbury's	51 Townmead Road	London	SW6 2SY
S05-011-733	Ready made premium 1	Cow & Gate	12-08-06	4D	07.01.06	Sainsbury's	51 Townmead Road	London	SW6 2SY
S05-011-734	Ready made next steps 4	Cow & Gate	31-08-06	1A	07.01.06	Sainsbury's	51 Townmead Road	London	SW6 2SY
S05-011-735	Ready to use second milk	Farley's	08 2006	L540B 1	07.01.06	Sainsbury's	51 Townmead Road	London	SW6 2SY
S05-011-736	Ready to use Aptamil extra 2	Milupa	13-07-06	4C	07.01.06	Sainsbury's	51 Townmead Road	London	SW6 2SY
S05-011-737	Ready to use follow on milk	Farley's	08 2006	L540A 2	07.01.06	Sainsbury's	51 Townmead Road	London	SW6 2SY
S05-011-738	Ready to use Aptamil first 1	Milupa	13-09-06	3D	07.01.06	Sainsbury's	51 Townmead Road	London	SW6 2SY
S05-011-739	Salmon & spinach pasta bake	Cow & Gate Organic	13-05-08	CO8	07.01.06	Sainsbury's	51 Townmead Road	London	SW6 2SY
S05-011-740	Vegetables with chicken & rice	Bebivita	06/2007	L23981 F D Nr017005 Nr017009	07.01.06	Sainsbury's	51 Townmead Road	London	SW6 2SY
S05-011-741	William Christ pears	Bebivita	01/2007	L24386 F D Nr001232 Nr001289 Nr001223	07.01.06	Sainsbury's	51 Townmead Road	London	SW6 2SY
S05-011-742	Mixed vegetables	Bebivita	03/2007	L22352 D Nr001682 Nr001818 Nr 001746	07.01.06	Sainsbury's	51 Townmead Road	London	SW6 2SY
S05-011-743	Organic banana & peach breakfast	Hipp	02.2007	L65297046013	20.01.06	Waitrose	273 Ballards Lane	London	N12 8NR
S05-011-744	Tomato & chicken pasta bake	Heinz	03-2007	NG3 2645	07.01.06	Tesco	Kennington Lane	London	SE11 5QU
S05-011-745	Ready to use SMA progress	SMA	17 OCT 06	09117D	07.01.06	Tesco	Kennington Lane	London	SE11 5QU

S05-011-746	Fruity porridge	Cow & Gate Organic	19.09.2008	104866 10504234	07.01.06	Tesco	Kennington Lane	London	SE11 5QU
S05-011-747	Creamed oat porridge	Cow & Gate Organic	07-03-08	A01	07.01.06	Tesco	Kennington Lane	London	SE11 5QU
S05-011-748	Vegetable & chicken casserole	Heinz	07-2007	IL3 2995	07.01.06	Tesco	Kennington Lane	London	SE11 5QU
S05-011-749	Chocolate mousse	Cow & Gate Organic	31.07.2008	104830	07.01.06	Tesco	Kennington Lane	London	SE11 5QU
S05-011-750	Organic fruit & cereal bar - raspberry & apple	Organix Goodies	SEP 06	5 270	07.01.06	Tesco	Kennington Lane	London	SE11 5QU
S05-011-751	Rosie's orchard chicken	Cow & Gate Organic	13-06-08	A11	07.01.06	Tesco	Kennington Lane	London	SE11 5QU
S05-011-752	Truly fruit bar - plum	Cow & Gate	06.10.2006	None declared	07.01.06	Tesco	Kennington Lane	London	SE11 5QU
S05-011-753	Cauliflower cheese florets	Cow & Gate Organic	18-05-08	A15	07.01.06	Tesco	Kennington Lane	London	SE11 5QU
S05-011-754	Farley's rusks reduced sugar original	Heinz	01 05 2007	5333	14.01.06	Asda	Beehive Centre	Cambridge	CB1 3ET
S05-011-755	Sunshine orange	Cow & Gate	20/12/06	003842 003844	14.01.06	Asda	Beehive Centre	Cambridge	CB1 3ET
S05-011-756	Seasonal vegetables & chicken	Cow & Gate	31/01/07	021937 021938	14.01.06	Asda	Beehive Centre	Cambridge	CB1 3ET
S05-011-758	Roast turkey dinner	Cow & Gate	25/11/06	016983 016985	14.01.06	Asda	Beehive Centre	Cambridge	CB1 3ET
S05-011-759	Truly fruits pear and pineapple	Cow & Gate	22/09/06	None declared	14.01.06	Asda	Beehive Centre	Cambridge	CB1 3ET
S05-011-760	Cheesy vegetables & pasta	Cow & Gate	29.11.2008	104823	14.01.06	Asda	Beehive Centre	Cambridge	CB1 3ET
S05-011-761	Organic tangy vegetables with chicken	Hipp	01/2007	L24956N D Nr043495 Nr043640	14.01.06	Asda	Beehive Centre	Cambridge	CB1 3ET
S05-011-762	Fruit muesli	Cow & Gate	08.11.2007	10505164 104850	14.01.06	Asda	Beehive Centre	Cambridge	CB1 3ET
S05-011-763	Creamed porridge	Cow & Gate	06.10.2008	104807	14.01.06	Asda	Beehive Centre	Cambridge	CB1 3ET
S05-011-764	Chocolate & orange pudding	Heinz	1st MAY 2006	445E	14.01.06	Babies 'R' Us	Beehive Centre	Cambridge	CB1 3ET
S05-011-765	Lemon curd pavlova	Heinz Mum's Own	02/2007	5319 V74A	14.01.06	Asda	Beehive Centre	Cambridge	CB1 3ET
S05-011-766	Sweet vegetable pasta	Heinz Mum's Own	12/2006	5288 V44A	14.01.06	Asda	Beehive Centre	Cambridge	CB1 3ET
S05-011-767	Sweet potato &	Heinz Mum's	02/2007	5319 V36A	14.01.06	Asda	Beehive Centre	Cambridge	CB1 3ET

	beef mince pie	Own							
S05-011-768	Tender carrots & chicken	Cow & Gate	21.11.2008	104817	14.01.06	Asda	Beehive Centre	Cambridge	CB1 3ET
S05-011-769	Organic cottage pie	Hipp	05/2007	L25388N D Nr104628 Nr104459 Nr104188	14.01.06	Asda	Beehive Centre	Cambridge	CB1 3ET
S05-011-770	Organic Lancashire hotpot	Hipp	04/2007	L25876N D Nr010048 Nr009939	14.01.06	Asda	Beehive Centre	Cambridge	CB1 3ET
S05-011-771	Organic vegetable with rice and chicken	Hipp	11/2007	L25691N D Nr104677 Nr050919 Nr050853	14.01.06	Asda	Beehive Centre	Cambridge	CB1 3ET
S05-011-772	Potato, parsnip & beef	Heinz Simply Organic	10/2006	5222 075A	14.01.06	Babies 'R' Us	Beehive Centre	Cambridge	CB1 3ET
S05-011-773	Biscotti	Heinz Organic	31/12/06	5257 1A	14.01.06	Babies 'R' Us	Beehive Centre	Cambridge	CB1 3ET
S05-011-774	Carrot, parsnip & chicken	Heinz Simply Organic	01/2007	5179 070A	14.01.06	Babies 'R' Us	Beehive Centre	Cambridge	CB1 3ET
S05-011-775	Organic creamy vegetable pasta	Hipp	03/2007	L24423N D Nr058881 Nr058757	14.01.06	Babies 'R' Us	Beehive Centre	Cambridge	CB1 3ET
S05-011-776	Creamy macaroni with sweetcorn	Heinz Simply Organic	03/2007	5259 085A	14.01.06	Babies 'R' Us	Beehive Centre	Cambridge	CB1 3ET
S05-011-777	Seaside pasta	Heinz Mum's Own	12/2006	5239 146B	14.01.06	Babies 'R' Us	Beehive Centre	Cambridge	CB1 3ET
S05-011-778	Beef purée	Heinz Mum's Own	06/2006	V85A 5160	20.01.06	Waitrose	273 Ballards Lane	London	N12 8NR
S05-011-779	Organic rice cakes	Organix	08/2006	L5308 - A	20.01.06	Waitrose	273 Ballards Lane	London	N12 8NR
S05-011-780	Fromage frais	Danone Baby	None declared	None declared	20.01.06	Waitrose	273 Ballards Lane	London	N12 8NR
S05-011-781	Organic fine garden vegetables with creamy chicken	Hipp Growing Up Meal	05.07.06	L25699	20.01.06	Morrison's	High Road	London	N22 6BH
S05-011-782	Carrots & lamb with rosemary	Heinz	07-2007	IJ3 2295	20.01.06	Morrison's	High Road	London	N22 6BH
S05-011-783	Tomato & courgette fusilli	Heinz Simply Organic	11/2006	086A 5148	20.01.06	Morrison's	High Road	London	N22 6BH
S05-011-784	Pasta bolognese	Heinz	07-2007	113 2795	20.01.06	Morrison's	High Road	London	N22 6BH
S05-011-785	Golden cornflakes with apricots	Cow & Gate	24/11/06	013496 013497	20.01.06	Morrison's	High Road	London	N22 6BH
S05-011-786	Farley's rusks reduced sugar gluten free	Heinz	01 03 2007	5248	20.01.06	Morrison's	High Road	London	N22 6BH
S05-011-787	Garden vegetables with	Heinz	07-2007	EL3 3125	20.01.06	Morrison's	High Road	London	N22 6BH

	chicken								
S05-011-788	Pumpkin, swede & lamb	Heinz Mum's Own	12/2006	5245 145B	20.01.06	Morrison's	High Road	London	N22 6BH
S05-011-789	Spaghetti bolognese	Heinz Toddler's Own	09-2006	None declared	20.01.06	Morrison's	High Road	London	N22 6BH
S05-011-790	Casserole with vegetables & lean beef	Heinz Mum's Own	27/09/2006	5271	20.01.06	Morrison's	High Road	London	N22 6BH
S05-011-791	Minted vegetables with lamb	Heinz	07-2007	KL3 2375	20.01.06	Morrison's	High Road	London	N22 6BH
S05-011-792	Vegetable & chicken noodle	Heinz	03-2007	2655 IP3	20.01.06	Morrison's	High Road	London	N22 6BH
S05-011-793	Vegetable hotpot with meatballs	Heinz Toddler's Own	04-2006	None declared	20.01.06	Morrison's	High Road	London	N22 6BH
S05-011-794	Creamy vegetable curry	Heinz Mum's Own	12/2006	5245 V46A	20.01.06	Morrison's	High Road	London	N22 6BH
S05-011-795	Swiss baby muesli	Familia	14.10.07	None declared	02.02.06	Here	125 Sydney Street	London	SW3 6NR
S05-011-796	Organic infant formula	Babynat	07/06/2007	01596 8328	02.02.06	Here	125 Sydney Street	London	SW3 6NR
S05-011-797	Organic follow-on milk	Babynat	18/10/2007	00344 9258	02.02.06	Here	125 Sydney Street	London	SW3 6NR
S05-011-798	100% fruit bar	Peter Rabbit Organics	JUL 06	X28F5	02.02.06	Here	125 Sydney Street	London	SW3 6NR
S05-011-799	Frozen organic pasta with vegetables & cheese	Truuuly Scrumptious	JAN 2007	F016F	02.02.06	Here	125 Sydney Street	London	SW3 6NR
S05-011-800	Frozen organic cottage pie	Truuuly Scrumptious	JAN 2007	P011F	02.02.06	Here	125 Sydney Street	London	SW3 6NR
S05-011-801	Apple & cherry muesli	Cow & Gate Organic	12.10.2008	10504722 1048 65	03.02.06	Tesco	Yarrow Road	Cambridge	CB1 9BF
S05-011-802	Staydown	SMA	28.06.2007	DB2 033809 P5J023A01	04.02.06	Boots the Chemist	28 Petty Cury	Cambridge	CB2 3NP
S05-011-803	Organic spaghetti with tomatoes & mozzarella	Hipp	07/2007	L26700 N DE NR216785 NR216772	03.02.06	Tesco	Yarrow Road	Cambridge	CB1 9BF
S05-011-804	Organic butternut squash & chicken	Hipp	04/2007	D L25690 N Nr009599 Nr009832 Nr009656	03.02.06	Tesco	Yarrow Road	Cambridge	CB1 9BF
S05-011-805	Organic tender carrots & potatoes	Hipp	10/2007	L25359 N D Nr271854 Nr271821 Nr271961	03.02.06	Tesco	Yarrow Road	Cambridge	CB1 9BF
S05-011-806	Organic chunky vegetable & beef casserole	Hipp	05/2007	L26615N DE Nr070739 <i>No sequential</i>	03.02.06	Tesco	Yarrow Road	Cambridge	CB1 9BF

				<i>code on 2nd jar</i>					
S05-011-807	Broccoli & cheese bake	Cow & Gate Organic	14.10.2008	104846	03.02.06	Tesco	Yarrow Road	Cambridge	CB1 9BF
S05-011-808	Golden vegetable & turkey bake	Cow & Gate Organic	27.11.2008	104848	03.02.06	Tesco	Yarrow Road	Cambridge	CB1 9BF
S05-011-809	Organic Spaghetti bolognese	Hipp Growing Up Meal	11/2007	D L25982N Nr057065 Nr057086	03.02.06	Tesco	Yarrow Road	Cambridge	CB1 9BF
S05-011-810	Chocolate rice sandwiches	Cow & Gate	04 11 2006	None declared	03.02.06	Tesco	Yarrow Road	Cambridge	CB1 9BF
S05-011-811	Apricot & strawberry breakfast	Heinz Organic	1st JUN 2007	551B	03.02.06	Tesco	Yarrow Road	Cambridge	CB1 9BF
S05-011-812	Shepherds pie with lamb	Heinz	1st JAN 2007	542DXZ	03.02.06	Tesco	Yarrow Road	Cambridge	CB1 9BF
S05-011-813	Oaty porridge	Heinz Organic	1st APR 2007	601CX	03.02.06	Tesco	Yarrow Road	Cambridge	CB1 9BF
S05-011-814	Cauliflower & broccoli cheese	Heinz	1st JUL 2007	542B	03.02.06	Tesco	Yarrow Road	Cambridge	CB1 9BF
S05-011-815	Mediterranean vegetables with rice	Heinz	1st OCT 2007	602B	03.02.06	Tesco	Yarrow Road	Cambridge	CB1 9BF
S05-011-816	Oats & apple cereal	Heinz	1st AUG 2007	545C	03.02.06	Tesco	Yarrow Road	Cambridge	CB1 9BF
S05-011-817	Peachy porridge	Heinz	1st APR 2007	542CX	03.02.06	Tesco	Yarrow Road	Cambridge	CB1 9BF
S05-011-818	Farley's mini fruit bears	Heinz	18 07 06	5291	03.02.06	Tesco	Yarrow Road	Cambridge	CB1 9BF
S05-011-819	Carrots & hake	Blédina Baby's Choice	14/04/2006	None declared	04.02.06	Boots the Chemist	28 Petty Cury	Cambridge	CB2 3NP
S05-011-820	Italian pastas	Blédina Toddler Menu	27/09/06	LDS5 EJ [3]	04.02.06	Boots the Chemist	28 Petty Cury	Cambridge	CB2 3NP
S05-011-821	LF	SMA	28 07 2008	R 123283 G5K052L08	04.02.06	Boots the Chemist	28 Petty Cury	Cambridge	CB2 3NP
S05-011-822	Follow-on milk	Cow & Gate Organic	19/11/2007	(2) W-323-05 000892	04.02.06	Boots the Chemist	28 Petty Cury	Cambridge	CB2 3NP
S05-011-823	Organic growing up rusks	Hipp	09.2006	L0035	04.02.06	Boots the Chemist	28 Petty Cury	Cambridge	CB2 3NP
S05-011-824	Organic baby rice	Hipp	05.2007	L65276534012	04.02.06	Boots the Chemist	28 Petty Cury	Cambridge	CB2 3NP
S05-011-825	Roast pork & apple	Cow & Gate	10/11/06	012652 012398	04.02.06	Boots the Chemist	28 Petty Cury	Cambridge	CB2 3NP
S05-011-826	Organic vegetable & chicken	Boots	SEPT 2006	40910-A 26667538-A 26658752-A	04.02.06	Boots the Chemist	28 Petty Cury	Cambridge	CB2 3NP
S05-011-827	Farley's rusks - reduced sugar banana	Heinz	01.05.2007	5308	04.02.06	Boots the Chemist	28 Petty Cury	Cambridge	CB2 3NP
S05-011-828	Organic Rusks	Boots	07/2006	L5213	04.02.06	Boots the Chemist	28 Petty Cury	Cambridge	CB2 3NP

S05-011-829	Cauliflower cheese pasta & potatoes	Heinz	07-2007	IC3S 3055	07.02.06	Sainsbury's	42-44 Sidney Street	Cambridge	CB2 3HX
S05-011-830	Organic banana porridge	Hipp	02.2007	L65277634 009	07.02.06	Budgens	6 Adkins Corner	Cambridge	CB1 3TE
S05-011-831	Apple & pear	Cow & Gate	06.09.2008	104853 10504068	11.02.06	Mace	20 Oxford Street	Newmarket	CB8 7EW
S05-011-832	Rice & milk	Nestlé Cerelac	07 2007	CWEIS MAN 07 2005	13.02.06	Balvs	158 Mill Road	Cambridge	CB1 3LP
S05-011-833	3 fruits wheat & milk	Nestlé Cerelac	07 2007	CWGCS MAN 07 2005	13.02.06	Balvs	158 Mill Road	Cambridge	CB1 3LP
S05-011-834	Fruit surprise breakfast	Heinz Mum's Own	12/2006	V65A 5288	07.02.06 13.02.06	Budgens	6 Adkins Corner	Cambridge	CB1 3TE
S05-011-835	Peach & pear porridge	Heinz Mum's Own	06/2006	V68A 5090	07.02.06 13.02.06	Budgens	6 Adkins Corner	Cambridge	CB1 3TE
S05-011-836	Honey pops	Peter Rabbit Organics	29/03/07	050929	19.02.06	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-837	Pure rice fusilli	Peter Rabbit Organics	05.09.2007	None declared	19.02.06	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-838	Organic rice porridge	Holle	08.05.06	Production date 08.03.05 L62087J001	23.02.06	Organic Health	87 Church Road	Cambridge	CB2 5HS
S05-011-839	First organic apple & raspberry cereal	Organix	JANUARY 07	50131 - A 28022751-A 28022752-A	21.02.06	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-840	First organic apple & banana muesli	Organix	FEBRUARY 07	50201-A 27977436-A 27977435-A	21.02.06	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-841	Organic rice cakes -apple	Organix	11/2006	L5335-A	21.02.06	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-842	Honey cookies	Peter Rabbit Organics	06 2006	L5250	21.02.06	Waitrose	Fred Archer Way	Newmarket	CB8 8NY
S05-011-939	Organic infant formula 1	Holle	05 2006	L62091J 001 Production date 08 03 05	24.02.06	Organic Health	87 Church Road	Cambridge	CB2 5HS
S05-011-940	Organic infant follow-on formula 2	Holle	05.2006	L62090 J 001 Production date 06 03 05	24.02.06	Organic Health	87 Church Road	Cambridge	CB2 5HS

Annex 3. Responses from brand owners of products with high or unusual results

ORGANICO REALFOODS LTD

We have well noted that a high content of iron was found in a sample of our Babynat infant formula by the UK Food Standards. We have ourselves made a counter-analysis on a sample of the same batch of Babynat infant formula and have found an iron content of 1.66mg per 100kcal of ready-to-drink infant formula. This is indeed above the maximum level allowed, however, it is in the sphere of tolerance for this mineral. Anyhow, a new formulation of our infant formula is currently being elaborated so as to reduce the level of iron.