

Survey of retail salads for nitrate

Summary:

The results of a Food Standards Agency survey of retail salads, including lettuce, spinach, rocket and mixed salad bags, show that the levels of nitrates in these salads are below the safety guidelines.

Vegetables are a major source of nitrate in the diet. Green leafy vegetables, such as lettuce and spinach, naturally contain higher levels of nitrate than other foods. Every Member State in the European Union is required to monitor and report levels of nitrate in lettuce and spinach in the field. In order to complement this statutory monitoring, the Agency commissioned this survey to obtain information on the levels of nitrate in retail salads available to UK consumers. Samples included whole lettuce (Iceberg, Round, Little Gem, Lollo Rosso and Cos), bagged salads (mixed lettuces including rocket), rocket and spinach (mature, baby, loose, canned and frozen).

Two hundred and one samples of lettuce, spinach, rocket and mixed salads were analysed. None of the mixed salad bags were above the legal limits. Of the 142 samples of lettuce and spinach (for which there are maximum limits), 18% of the lettuce samples would be above the legal limits that will come into force on 1st January 2005. Twenty percent of spinach samples would have been above the legal limits if they applied in the UK. No limits exist for rocket. However, it should be noted that when the results of the survey were used to estimate dietary exposures to nitrate it was found that the levels detected did not pose a risk to consumer health.

Background:

Nitrate is present in all vegetables naturally via the nitrogen cycle. Green leafy vegetables, in particular lettuce and spinach, contain relatively high concentrations of nitrate compared to other foods and constitute a significant source of nitrate to the consumer. Nitrate levels are also affected by factors such as climate, soil characteristics, fertilisation regime, growth rates and in particular, light levels. Cloudy conditions have been observed to lead to high levels of nitrate in lettuce and spinach, which is a concern for several northern European Member States.

The EU Scientific Committee for Food (SCF) reviewed the available data in 1995 and recommended an acceptable daily intake (ADI) for nitrates of 3.65mg/kg bodyweight per day. This is equivalent to a safety guideline of 219mg/day nitrate for a 60kg person. An ADI is an estimate of the amount of a substance, expressed on a bodyweight basis, that can be ingested daily over a lifetime without appreciable health risks. In this case, the safety guideline was set to protect against possible harmful effects of nitrate in the diet, such as a form of anaemia that is most likely to occur in young children. Many studies have investigated the possibility of a link between nitrate intake and its conversion to cancer-causing compounds, but so far these have failed to provide convincing evidence that nitrate intake in the UK causes cancer.

EU legislation:

EU Regulation 563/2002 sets maximum levels for nitrate in lettuce and spinach and requires that all Member states carry out monitoring annually. The limits set down vary according to season with higher nitrate levels permitted in crops grown in winter in comparison with those grown in the summer. For lettuce, there are also different limits for glasshouse-grown and outdoor crops.

The Regulation also allows for an optional derogation from the limits for nitrate in lettuce and spinach. This means that during the derogation period, Member States are permitted to produce lettuce and spinach that is exempt from the maximum limits. However, it should be noted that maximum permitted levels do apply to imported produce. The derogation period allows growers time to implement a code of Good Agricultural Practice (GAP) which is another requirement of the Regulation. Amongst other suggestions, this code of GAP^{1,2,3} requires the alteration of fertiliser application regimes with the aim of reducing the level of nitrogen in crops.

The UK and other Northern Member States are currently applying this derogation which will cease in January 2005 for lettuce. For spinach, the derogation period, currently applied by all Member States, will be reviewed around 1st January 2005. Most lettuce and spinach grown in the UK is grown under codes of Good Agricultural Practice and meets the EC maximum limits for nitrate.

Survey of Retail Salads:

The Agency commissioned this survey to measure the concentration of nitrates in retail salads, estimate the likely human dietary exposures and assess whether there is a potential health risk from consumption of these foods. As Agency surveys are designed to reflect market share and range, samples analysed in this survey also included lettuce varieties that most commonly make up mixed salad bags but are not necessarily subject to the EC regulations e.g. rocket. This data will be useful should the European Commission propose maximum levels for nitrate in these varieties in the future.

Sampling:

A total of 201 samples of leafy green salad produce both of UK and imported origin were sampled in 2002, including whole lettuce (Iceberg, Round, Little Gem, Lollo Rosso and Cos), bagged salads (mixed lettuces including rocket), rocket and spinach (mature, baby, loose, canned and frozen). The samples were purchased by Ventress Technical Services Limited. All areas of the UK were covered, including a cross-section of retail outlets. A variety of brands were sampled, including products imported from the EU. The details of each sample were recorded on receipt and are given in Annex 1. The absence of a particular brand from this table means only that the product was not included in the survey. The samples were selected to include a wide range of stores; supermarkets, smaller shops and market stalls. Although the samples were taken to reflect market share, a wide range of brands were covered in order to ensure that the survey was representative of the supply of the products to consumers in the UK.

For surveys carried out by the Agency, a representative retail sample, in this case of approximately 1kg in weight, is taken. Where the product is sold in packs of less than 1kg, a number of retail packs were purchased, ensuring they all came from the same batch, and these were mixed thoroughly before analysis. Samples were dispatched to Direct Laboratories on the day of purchase or on the following day.

Methodology:

All the analysis was carried out by Direct Laboratories. Samples were stored according to guidelines set out in '*Guidelines for Laboratories carrying out the determination of nitrate in lettuce and spinach: EC Monitoring programme*' (EU Commission Document VI/4800/96). This document specifies the procedure to be followed for reception and preparation of samples of lettuce and spinach in connection with the monitoring programme for nitrate.

The homogenisation procedures used were developed as part of an earlier project carried out by Direct Laboratories for the FSA⁴. Briefly, each sample was mixed thoroughly and homogenised to produce a representative test sample. Each sample was then spilt into four equal portions, labelled and stored at -20 °C. Only one sample was used for analysis in this survey with the other samples reserved for confirmatory analysis and for analysis by brand owner at their request. Extraction of the samples was carried out as described previously in section 5.2 of the FSA methods bulletin 16, January 2002⁵.

Details of the analytical procedure adopted are also given in the FSA methods bulletin 16⁵. In summary, this included generating calibration curves and the use of standardised HPLC columns under predetermined operating conditions for the matrices being used. All the procedures and output from the HPLC were evaluated to ensure proper performance during analysis. This method is based on British Standard BS EN 12014-2:1997⁶. All samples were analysed within the agreed deadline of 6 weeks from date of purchase, and normally within 2 weeks. Results exceeding the appropriate limit were reported immediately to the FSA and repeat analysis undertaken in order to confirm the result so that appropriate action could be taken.

Quality Control:

Quality control was in accordance with IUPAC Guidelines⁷. In-house quality assurance samples were run with each batch of samples (maximum batch size 12). If the results from reference materials fell outside pre-defined limits, results from the batch were rejected and the batch re-analysed. All analyses were conducted with spiked samples, i.e. a known amount of toxin was added to each sample matrix prior to extraction on each day. These samples were used to assess recovery of nitrate. Recoveries on spiked samples ranged from 91.1 to 109.2%.

Measurement Uncertainty:

All analytical results have an associated variability termed "measurement uncertainty". For any analytical method the result is reported as the best

estimate for the samples and it is always qualified by a measurement uncertainty (MU), e.g. x micrograms/kg \pm y microgram/kg. In this case measurement uncertainty was calculated from in-house quality control samples using an accepted approach consistent with Eurochem guidelines⁸. The standard deviation of results obtained from analysis of in-house quality reference materials (75 analyses) generated data on in-house reproducibility. In accordance with commonly accepted practice, this standard deviation was multiplied by a factor of 2 ("k") to give expanded measurement uncertainty. A final figure for measurement uncertainty was therefore calculated as ± 146 mg/kg nitrate.

Results:

A total of 201 samples were analysed and the overall nitrate concentrations ranged from 33-7337 mg/kg. The full results of the survey are detailed in Annex 2 and a summary of the results by country of origin in Table 1. A summary of the results sorted by product type appears as Table 2.

Table 1: Summary of nitrate concentrations by plant and origin

Product type and origin	Total No. samples	Mean* nitrate concentration (mg/kg)
UK Lettuce (inc. iceberg)	64	1870
UK Spinach	19	1886
UK Rocket	8	3289
UK Mixed Bags	19	1379
EU Lettuce (inc. iceberg)	24	1443
EU Spinach	17	1487
EU Mixed Bags	1	297
EU Other (endive)	1	1223
Non-EU Lettuce (inc. iceberg)	14	1333
Non-EU Spinach	4	1130
Non-EU Rocket	7	3054
Non-EU Mixed Bags	23	1335

EU = EU excluding UK results.

Other = samples from outside the EU

* Result adjusted for recovery: Recovery is the percentage of nitrate recovered from the quality- assurance samples (using the same procedures described above). All sample outputs were adjusted to take into account this analytical variant.

All results are given as the best estimate value, corrected for recovery, but do not take into account the measurement uncertainty. Food Standards Agency surveys of contaminants are usually reported in this manner since the best estimate values are used to calculate dietary intakes of the various contaminants.

The average concentration of nitrate across the 76 samples of lettuce was 1943 mg/kg. On average, Cos lettuce generally had the lowest nitrate concentration (808 mg/kg), whereas lambs lettuce and round lettuce had the highest (3411 mg/kg and 3347 mg/kg respectively). The average concentration of nitrate across the 40 samples of spinach was 1655 mg/kg. Of the spinach products surveyed, the lowest average nitrate concentration was measured in frozen spinach (415 mg/kg) and the highest in bagged mature spinach (2527 mg/kg).

Forty-six samples of mixed salads were sampled, with an average nitrate concentration of 1314 mg/kg. Fifteen samples of rocket were tested, with an average concentration of 3163 mg/kg, and 23 samples of iceberg lettuce were taken, with an average nitrate level of 862 mg/kg.

Table 2: Summary of nitrate concentrations by product type

Product type	Total No. samples	Mean* nitrate concentration (mg/kg)
Lettuce types		
Cos lettuce	11	808
Little gem lettuce	11	935
Organic whole lettuce	15	1115
Red lettuce	12	2082
Round lettuce	20	3347
Crest lettuce	1	1458
Curly lettuce	4	3263
Lollo Verde lettuce	1	1980
Lambs lettuce	1	3411
Total for all lettuce	76	1943
Other products		
Rocket	15	3164
Iceberg	23	863
Endive	1	1223
Mixed bagged salads	46	1314
Spinach types		
Baby spinach	7	1899
Bagged Mature spinach	11	2527
Canned spinach	6	502
Frozen spinach	6	415
Loose spinach	5	1785
Organic spinach	5	2138
Total for all spinach	40	1655

* Result adjusted for recovery: Recovery is the percentage of nitrate recovered from the quality- assurance samples (using the same procedures described above). All sample outputs were adjusted to take into account this analytical variant.

More than 80% of lettuce samples were under the level of nitrates that will be legally permitted in the new rules. Eighty per cent of spinach samples tested (32 of 40 samples) would have been under the permitted level if it applied. The new rules will not apply for rocket.

Where surveys are conducted for other purposes, the data are interpreted differently. In their own surveys, for statutory enforcement purposes, public analysts and enforcement authorities always take the uncertainty associated with an analytical measurement into account when considering whether a product breaches regulatory limits. As a result of this they only take action when they are sure that levels of contaminants are above the regulatory limits. The Agency has followed their practice and taken action where the best estimate, less measurement uncertainty, exceeded the proposed guideline limit.

Dietary Exposure Estimates:

Dietary exposure estimates for nitrates can be estimated for average (mean) consumers and for those who eat significantly more than average amounts of particular food categories (high level consumers). These estimates can be compared to the acceptable daily intake (ADI) assigned by the Scientific Committee on Food (SCF).

The Food Standards Agency's INTAKE computer programme was used to combine nitrate concentration of lettuce and spinach with food consumption data from the National Diet and Nutrition Surveys of adults, young people aged 4 to 18 years and toddlers aged 1.5 to 4 years.

Based on the results of this survey, the estimates of exposure to nitrates from lettuce and spinach for all population groups indicate that exposures are below the acceptable daily intakes established by the SCF.

Agency Action:

The Agency has contacted all the companies whose products were found to be in excess of the legal limit and informed them of the results of the survey, and also advised them to review their quality assurance procedures.

The European Commission was notified, under the Rapid Alert System for Food And Feed (RASFF), of four samples of spinach, which had been imported into the UK from Portugal, Spain and the USA, as they had nitrate levels above the EC maximum permitted level. This action was necessary as the exemption that applies to UK produce does not apply to that imported from other Member States.

Advice to Consumers:

Dietary exposures to nitrates from lettuce and spinach by UK consumers are low, even for high-level consumers, and so there is no concern for human health from eating these foods. In contrast there are well-established benefits of eating fresh fruit and vegetables as part of a healthy balanced diet.

The Food Standards Agency carries out a programme of research and surveys to monitor products that might be affected and takes action when unacceptable levels are found. Current research includes methods to improve sampling techniques for lettuce and spinach and an investigation of the potentially harmful effects of dietary nitrate on the human body.

The Agency is continuing to work with industry and enforcement authorities to ensure nitrate levels in lettuce and spinach are kept to a minimum through encouraging growers to follow the Code of Good Agricultural Practice (GAP).

Bibliography:

1. National Farmers Union (1999) Industry Code of Good Agricultural Practice to Minimise Nitrate Content of Lettuce Grown Under Outdoor Cropping Culture in the UK. Commodities Department, National Farmers Union, June 1999, Version 2
2. National Farmers Union (1999) Industry Code of Good Agricultural Practice to Minimise Nitrate Content of Lettuce Grown Under Protected Cropping Culture in the UK. Commodities Department, National Farmers Union, June 1999, Version 2
3. National Farmers Union (1999) Industry Code of Good Agricultural Practice to Minimise Nitrate Content of Spinach Grown in the UK. Commodities Department, National Farmers Union, June 1999, Version 2
4. Direct Laboratories (Formerly ADAS Laboratories). (2002) "A comparison of the accuracy of extraction methods used in the nitrate residues monitoring programme." Food Standards Agency Project C03016.
5. Methods Bulletin 16 (January 2002):
<http://www.food.gov.uk/science/research2/DataAndMethods/methodsbulletins>
6. British Standard BS EN 12014-2:1997. Foodstuffs -determination of nitrate and/or nitrite content. Part 2. HPLC/IC method for the determination of nitrate content of vegetables and vegetable products.
7. M. Thompson (ed.) and R. Wood, "Guidelines on Internal Quality Control in Analytical Chemistry Laboratories", *Pure Appl. Chem.*, 1995, **67**, 649-666.
8. EURACHEM/CITAC Guide Quantifying Uncertainty In Analytical Measurement (Second Edition), EURACHEM Secretariat, HAM, Berlin, 2000. <http://www.vtt.fi/ket/eurachem>.

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Annex 1: Details of samples

SAMPLE NUMBER	PRODUCT AS DESCRIBED ¹	PRODUCT CATEGORY	BRAND ¹	NUMBER OF UNITS PURCHASED	USE BY DATE ¹	BATCH CODE ¹	DECLARED ORIGIN ¹	RETAILER	RETAILER ADDRESS
400908	Continental Salad	Mixed	Somerfield	3	11 JUN	Line 7 15:39	Packed in UK	Somerfield	335 White Hart Lane, London, N17 7LY
400909	Sweet Romaine Lettuce	Cos	Safeway	3	None Declared	3496/09/08/06	England	Safeway	Aldermans Hill, Palmers Green, London, N13 4YD
400910	Crisp Mixed Salad	Mixed	Morrisons	3	14 JUN	NF2 4 06:35	None Declared	Morrisons	6 -7 Salisbury Hall Gardens, Chingford, London, E4 8SA
400911	Round Lettuce	Round	Sainsbury's	3	None Declared	L0784D	Herts	Sainsbury's	11 Walthamstow Avenue, Chingford, London, E4 8ST
400912	Spinach	Bagged Mature Spinach	Morrisons	3	11 JUNE	LF 158	UK	Morrisons	6 -7 Salisbury Hall Gardens, Chingford, London, E4 8SA
400913	British Lollo Rosso Lettuce	Red	Tesco	3	None Declared	GS 01	Britain	Tesco	21 - 49 Ballards Lane, Finchley, London, N3 1XP
400914	Iceberg Lettuce	Iceberg	Waitrose	3	14 JUN	154E	England	Waitrose	273 Ballards Lane, London, N12 8NR
400915	Fully Prepared Rocket	Rocket	Sainsbury's	3	11 JUN	81239 157	Packed in UK	Sainsbury's	11 Walthamstow Avenue, Chingford, London, E4 8ST
400916	Little Gem	Little Gem	Morrisons	3	None Declared	D47328	England	Morrisons	6 -7 Salisbury Hall Gardens, Chingford, London, E4 8SA

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400919	Fresh Leaf Spinach	Bagged Mature Spinach	Tesco	3	None Declared	23:38	Surrey (EM03)	Tesco	Portcullis Lane, Ludlow, SY8 1PZ
400920	Little Gem	Little Gem	Gore Hall	3	None Declared	None Declared	None Declared	Farmers	1 Mill Street, Ludlow, SY8 1AZ
400921	British Iceberg Lettuce	Iceberg	Tesco	3	None Declared	GS01	Britain	Tesco	Portcullis Lane, Ludlow, SY8 1PZ
400922	British Little Gem Lettuce Hearts	Little Gem	Tesco	3	None Declared	GS01	Britain	Tesco	Portcullis Lane, Ludlow, SY8 1PZ
400925	British Lollo Rosso Lettuce	Red	Tesco	3	None Declared	GS01	British	Tesco	Culverhouse Cross, Cardiff, CF5 6XQ
400926	Organic Spinach	Organic Spinach	Marks & Spencer	3	22 JUNE	1922 101530168	England	Marks & Spencer	Culverhouse Cross, Cardiff, CF5 6YZ
400927	Baby Cos	Cos	Marks & Spencer	3	None Declared	1816	Norfolk	Marks & Spencer	Culverhouse Cross, Cardiff, CF5 6YZ
400928	Wild Roquette	Rocket	Marks & Spencer	3	22 JUNE	1922 81058168	England	Marks & Spencer	Culverhouse Cross, Cardiff, CF5 6YZ
400929	Iceberg Lettuce	Iceberg	None Declared	3	None Declared	None Declared	UK	Fresh and Fruity	238A Cowbridge Road East, Canton, Cardiff, CF5 1GY
400930	Round Lettuce	Round	None Declared	3	None Declared	None Declared	UK	Fresh and Fruity	238A Cowbridge Road East, Canton, Cardiff, CF5 1GY
400931	Little Gem Lettuce	Little Gem	Tesco	3	None Declared	DL02	UK	Tesco Extra	Western Avenue, Llandaff, Cardiff, CF14 3AT

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400932	Fresh Leaf Spinach	Bagged Mature Spinach	Tesco	3	None Declared	EM 03 01 Aug 14:20	Surrey	Tesco Extra	Western Avenue, Llandaff, Cardiff, CF14 3AT
400933	Fresh Leaf Spinach	Bagged Mature Spinach	Tesco	3	None Declared	15:07	Surrey	Tesco	Meadows Shopping Centre, Portadown, BT62 3TN
400934	Iceberg Lettuce - Washed and Ready To Eat	Other	Tesco	3	22.06.02	AV 13:56	England	Tesco	Meadows Shopping Centre, Portadown, BT62 3TN
400935	Round Lettuce	Round	Tesco	3	Thursday	SY	Northern Ireland	Tesco	Meadows Shopping Centre, Portadown, BT62 3TN
400936	Iceberg Lettuce	Iceberg	Tesco	3	None Declared	VJ	Ireland	Tesco	Meadows Shopping Centre, Portadown, BT62 3TN
400937	Romaine Lettuce	Cos	Tesco	3	None Declared	PB	Scotland	Tesco	Newmains Road, Renfrew, PA4 0NQ
400938	Spinach Leaf	Canned Spinach	Sainsbury's	3	MAY 2004	H455 H1151	Netherlands	Sainsbury's	Kings Inch Road, Braehead Shopping Development, Glasgow, G51 4BP
400939	Chopped Frozen Spinach	Frozen Spinach	Sainsbury's	3	OCT 2003	SHH 209705	Belgium	Sainsbury's	Kings Inch Road, Braehead Shopping Development, Glasgow, G51 4BP
400940	Rocket Salad	Mixed	Tesco	3	29.6.02	NF5 12.42	UK	Tesco	Newmains Road, Renfrew, PA4 0NQ

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400941	Lollo Rosso Lettuce	Red	Sainsbury's	3	None Declared	K0087A	Scotland	Sainsbury's	Kings Inch Road, Braehead Shopping Development, Glasgow, G51 4BP
400942	Little Gem Lettuce	Little Gem	Tesco	3	None Declared	PB	Scotland	Tesco	Newmains Road, Renfrew, PA4 0NQ
400943	Baby Leaf Salad	Mixed	Sainsbury's	3	24 JUL	Line 5 00.18	None Declared	Sainsbury's	Kings Inch Road, Braehead Shopping Development, Glasgow, G51 4BP
400944	Endive and Radicchio Salad	Mixed	Somerfield	3	25 JUL	Line 9 15:59	Asia (Endive)/ Italy (Radicchio)	Somerfield	East Lane, Paisley, Renfrewshire, PA1 1QA
400945	Iceberg Blend	Mixed	Sainsbury's	3	05 JUL	Line 3 15.34	None Declared	Sainsbury's Savacentre	White Rose Shopping Centre, Beeston, Leeds, LS11 8EW
400946	Iceberg Lettuce	Iceberg	Sainsbury's	3	None Declared	K0087A	None Declared	Sainsbury's Savacentre	White Rose Shopping Centre, Beeston, Leeds, LS11 8EW
400947	Chopped Spinach	Frozen Spinach	Sainsbury's	3	End NOV 03	SHH212313 13:39	Belgium	Sainsbury's Savacentre	White Rose Shopping Centre, Beeston, Leeds, LS11 8EW
400948	Chopped Leaf Spinach	Frozen Spinach	Morrisons	3	None Declared	S2148 4:18 (1713)	None Declared	Morrisons	Penny Hill Centre, Church Street, Hunslet, Leeds, LS10 2AP
400949	Sweet Romaine	Cos	Morrisons	3	None Declared	A22801	None Declared	Morrisons	Penny Hill Centre, Church Street, Hunslet, Leeds, LS10 2AP

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400950	Crest Lettuce	Other	Sainsbury's	3	None Declared	B0546A	UK	Sainsbury's Savacentre	White Rose Shopping Centre, Beeston, Leeds, LS11 8EW
400951	Little Gem	Little Gem	Morrisons	3	None Declared	F60076	England	Morrisons	Penny Hill Centre, Church Street, Hunslet, Leeds, LS10 2AP
400953	Curly Lettuce	Other	Waitrose	3	05 JUL	C36/218A	England	Waitrose	16 The Spires Shopping Centre, 111 High Street, Barnet, Herts, EN5 5XY
400954	Organic Iceberg Lettuce	Organic Whole	Waitrose	3	05 JUL	256/AU	Holland	Waitrose	16 The Spires Shopping Centre, 111 High Street, Barnet, Herts, EN5 5XY
400955	Single Romaine Heart	Cos	Waitrose	3	05 JUL	154AC	Surrey	Waitrose	16 The Spires Shopping Centre, 111 High Street, Barnet, Herts, EN5 5XY
400956	Baby Spinach Solo	Baby Spinach	Waitrose	3	07 JUL	02 111	Packed in UK	Waitrose	16 The Spires Shopping Centre, 111 High Street, Barnet, Herts, EN5 5XY
400957	Cos Lettuce	Cos	None Declared	3	None Declared	None Declared	None Declared	A Gardiner & Son	Barnet Market, St Albans Road, Barnet, Herts
400958	Iceberg Lettuce	Iceberg	Fossa Eugenia	3	None Declared	None Declared	None Declared	A Gardiner & Son	Barnet Market, St Albans Road, Barnet, Herts
400959	Young Leaf Spinach	Baby Spinach	Vitacress	3	None Declared	021077	Portugal	A Gardiner & Son	Barnet Market, St Albans Road, Barnet, Herts

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400960	Endive and Radicchio Medley	Mixed	Waitrose	3	14 JUL	03 1332	More than one country	Waitrose	16 The Spires Shopping Centre, 111 High Street, Barnet, Herts, EN5 5XY
400961	Rocket Solo	Rocket	Waitrose	3	12 JUL	04 1509	Produce of more than one country	Waitrose	16 The Spires Shopping Centre, 111 High Street, Barnet, Herts, EN5 5XY
400962	Round Lettuce	Round	Waitrose	3	14 JUL	C36/218A	England	Waitrose	16 The Spires Shopping Centre, 111 High Street, Barnet, Herts, EN5 5XY
400963	Baby Leaf Salad	Mixed	Sainsbury's	3	18 JUL	6 0753 195	None Declared	Sainsbury's	East Barnet Road, Barnet, Herts, EN4 8RQ
400964	Red Leaf & Rocket Salad	Mixed	Sainsbury's	3	19 JUL	Line 05:58	None Declared	Sainsbury's	East Barnet Road, Barnet, Herts, EN4 8RQ
400965	Rocket	Rocket	Sainsbury's	3	17 JUL	80805 194	None Declared	Sainsbury's	East Barnet Road, Barnet, Herts, EN4 8RQ
400966	Round Lettuce	Round	Sainsbury's	3	None Declared	L0784D Herts	British (Herts)	Sainsbury's	East Barnet Road, Barnet, Herts, EN4 8RQ
400967	Little Gem Lettuce	Little Gem	Sainsbury's	3	None Declared	G0630A	Cambs, UK	Sainsbury's	East Barnet Road, Barnet, Herts, EN4 8RQ
400968	Garden Salad	Mixed	Iceland	3	20 JUL	G048 2901	None Declared	Iceland Foods plc	126 High Street, Barnet, Herts, EN5 5XQ

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400969	Organic Romaine Lettuce	Organic Whole	Tesco	3	None Declared	GS 01	Britain	Tesco	Campbell Way, Worsley, Walkden, Salford, M28 5BT
400970	Organic Iceberg Lettuce	Organic Whole	Tesco	3	None Declared	GS 06	England	Tesco	Campbell Way, Worsley, Walkden, Salford, M28 5BT
400971	Iceberg Lettuce - Washed and Ready To Eat	Other	Tesco	3	30 JUL	NF2 4 201 12:21	England	Tesco	Campbell Way, Worsley, Walkden, Salford, M28 5BT
400972	Crispy Salad	Mixed	Florette	3	25 JUL	3 12:02 07N	Lessay (France)	Tesco	Campbell Way, Worsley, Walkden, Salford, M28 5BT
400973	Iceberg Lettuce	Iceberg	Asda	3	None Declared	520011	Cambs, UK	Asda	Trafford Park, Urmston, Manchester, M41 7ZA
400974	Twin Pack Trimmed Cos	Cos	Asda	3	None Declared	52004	Lancs, UK	Asda	Trafford Park, Urmston, Manchester, M41 7ZA
400975	Crisp Leaf Salad	Mixed	Asda	3	23 JUL	03 S 14:33	UK	Asda	Trafford Park, Urmston, Manchester, M41 7ZA
400976	Rocket	Rocket	Asda	3	24 JUL	04 M 06:38	UK	Asda	Trafford Park, Urmston, Manchester, M41 7ZA
400977	Fresh Spinach	Bagged Mature Spinach	H. Baxter & Sons, 196 Moss Lane, Hesketh Bank, Nr Preston, PR4 6AE	3	None Declared	None Declared	English	Silcock's	8 Boothway, Eccles, Manchester, M30 0EB

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400978	Cos Lettuce	Cos	Sainsbury's	3	None Declared	G0630L	Lancs, UK	Sainsbury's	100 Regent Road, Salford, Manchester, M5 4QU
400979	All Season Salad	Mixed	Sainsbury's	3	03 AUG	Line 2 14:32	None Declared	Sainsbury's	100 Regent Road, Salford, Manchester, M5 4QU
400980	Lollo Rosso Lettuce	Red	Sainsbury's	3	None Declared	G0630A	Cambs, UK	Sainsbury's	100 Regent Road, Salford, Manchester, M5 4QU
400981	Fully Prepared Rocket	Rocket	Sainsbury's	3	02 AUG	81317 209	None Declared	Sainsbury's	100 Regent Road, Salford, Manchester, M5 4QU
400982	Fully Prepared Wild Rocket	Rocket	Sainsbury's	3	02 AUG	91545 209	None Declared	Sainsbury's	100 Regent Road, Salford, Manchester, M5 4QU
400983	Iceberg Lettuce	Iceberg	Westdene Ronnie Bond Hesketh Bank	3	None Declared	None Declared	English	Sofresh	43 The Parade, Swinton, Salford, M27 4BH
400984	Simply Salad Mediterranean	Mixed	G's	3	12 AUG	S R	Will Sometimes Contain Produce of More Than One Country	Aldi	51 Swinton Hall Road, Swinton, Salford, M27 4BL
400985	Little Gem	Little Gem	Merevale	3	None Declared	L3203 800 D47297	UK	Aldi	51 Swinton Hall Road, Swinton, Salford, M27 4BL

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400986	Sweet Romaine Lettuce	Cos	Safeway	3	None Declared	30384/02 04/08	English	Safeway	Swinton, Manchester, M27 1AA
400987	Spinach	Bagged Mature Spinach	Safeway	3	None Declared	4576.03 18:30	English	Safeway	Swinton, Manchester, M27 1AA
400988	Wild Rocket	Rocket	Safeway	3	09 AUG	29309/4 L7 09:12	Various countries	Safeway	Swinton, Manchester, M27 1AA
400989	Flat Lettuce	Round	Safeway	3	None Declared	2145/04 05/08 PLU (887)	English	Safeway	Swinton, Manchester, M27 1AA
400990	Speciality Lettuce Alexandria Butterhead	Round	Safeway	3	None Declared	2145/10/05/08	Holland	Safeway	Swinton, Manchester, M27 1AA
400991	Cos Lettuce	Cos	Sainsbury's	3	None Declared	G0630G	Norfolk	Sainsbury's	Rushmere Shopping Centre, Craigavon, Co. Armagh, BT64 1AA
400992	Iceberg Lettuce	Iceberg	Sainsbury's	3	None Declared	H0824A Lancs	Lancs	Sainsbury's	Rushmere Shopping Centre, Craigavon, Co. Armagh, BT64 1AA
400993	Spinach Leaf	Canned Spinach	Sainsbury's	6	End MAY 2005	455 H2133	Netherlands	Sainsbury's	Rushmere Shopping Centre, Craigavon, Co. Armagh, BT64 1AA
400994	Italian Style Salad	Mixed	Tesco	3	14.08.02	11:14 AV	Packed in UK	Tesco	Meadows Shopping Centre, Portadown, BT62 3TN

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400995	Round Lettuce	Round	None Declared	3	None Declared	None Declared	None Declared	A C Pearce & Sons	A10 Farm Shop, Hamels Park Farm, Hamels Park, Buntingford, Hertfordshire, SG9 9NA
400996	Lollo Verde	Other	None Declared	3	None Declared	None Declared	France (information from retailer)	A C Pearce & Sons	A10 Farm Shop, Hamels Park Farm, Hamels Park, Buntingford, Hertfordshire, SG9 9NA
400997	Loose Spinach	Loose Spinach	None Declared	345g	None Declared	None Declared	English (information from retailer)	A C Pearce & Sons	A10 Farm Shop, Hamels Park Farm, Hamels Park, Buntingford, Hertfordshire, SG9 9NA
400998	Lollo Rosso Lettuce	Red	None Declared	3	None Declared	None Declared	French (information from retailer)	A C Pearce & Sons	A10 Farm Shop, Hamels Park Farm, Hamels Park, Buntingford, Hertfordshire, SG9 9NA
400999	Round Lettuce	Round	None Declared	3	None Declared	None Declared	English (information from retailer)	A W Wilkins	125 Bedwell Crescent, Stevenage, Herts, SG1 1NA
401000	Iceberg Lettuce	Iceberg	None Declared	3	None Declared	None Declared	None Declared	The Fruit Bowl	13 The Oval, Stevenage, Hertfordshire, SG1 5RA
401001	Organic Leaf Spinach	Frozen Spinach	Waitrose	3	DEC 2003	S2158	None Declared (UK 5 certification)	Waitrose	Hill Street, Saffron Walden, Essex, CB10 1EH

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401002	Rocket Solo	Rocket	Waitrose	3	23 AUG	02 1347	Produce of more than one country, Packed in UK	Waitrose	Hill Street, Saffron Walden, Essex, CB10 1EH
401003	Continental Salad Gourmet	Mixed	Waitrose	3	25 AUG	04 1232	Produce of more than one country, Packed in UK	Waitrose	Hill Street, Saffron Walden, Essex, CB10 1EH
401004	Iceberg Lettuce	Iceberg	None Declared	3	None Declared	None Declared	None Declared	R D Wighly	Market Stall, Market Square, Saffron Walden, Essex
401005	Baby Spinach Solo	Baby Spinach	Waitrose	3	22 AUG	02 0854	Packed in UK	Waitrose	Hill Street, Saffron Walden, Essex, CB10 1EH
401006	Organic Gourmet Lettuce	Organic Whole	Waitrose	3	23 AUG	273 RA	Produce of England	Waitrose	Hill Street, Saffron Walden, Essex, CB10 1EH
401007	Organic Seasonal Salad Medley	Mixed	Waitrose	3	22 AUG	01 2258	Produce of more than one country, Packed in UK	Waitrose	Hill Street, Saffron Walden, Essex, CB10 1EH

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401008	Chopped Spinach in Water, Salt Added	Canned Spinach	Waitrose	4	27 06 04	128K 12M 3441 17H41	Produced in France	Waitrose	Hill Street, Saffron Walden, Essex, CB10 1EH
401009	Iceberg Lettuce	Iceberg	None Declared	3	None Declared	None Declared	None Declared	Costcutter	41 - 45 High Street, Saffron Walden, Essex, CB10 1AR
401010	Chopped Spinach	Frozen Spinach	Asda	3	DEC 2003	EFP 2156G1 08:39	EU	Asda	Cardiff Bay, Cardiff, CF11 0JR
401012	Round Lettuce	Round	Asda	3	None Declared	0301141	UK	Asda	Cardiff Bay, Cardiff, CF11 0JR
401013	Curly Lettuce	Other	Asda	3	None Declared	0301141	UK	Asda	Cardiff Bay, Cardiff, CF11 0JR
401014	Prima Lechuga Iceberg Natural	Iceberg	Prima	3	None Declared	None Declared	Spain	Spar	198 Paisley Road, Renfrew, Renfrewshire, PA4 8DS
401015	Speciality Lettuce Lollo Rosso	Red	Safeway	3	None Declared	PLU# 87360 3382/02/01/09	Scotland	Safeway	Neilston Road, Paisley, Renfrewshire, PA2 6JE
401016	Organic Iceberg Lettuce	Organic Whole	Safeway	3	None Declared	3155/11/08/31	Holland	Safeway	Neilston Road, Paisley, Renfrewshire, PA2 6JE
401017	Fresh Leaf Spinach	Bagged Mature Spinach	Tesco	3	None Declared	EM03 09:53	Surrey	Tesco	Newmains Road, Renfrew, PA4 0NQ
401018	Iceberg Lettuce	Iceberg	None Declared	3	None Declared	None Declared	Spain	Patricia's Florist	173 Moorside Road, Flixton, Manchester, M41 5ST

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401019	Iceberg Lettuce	Iceberg	Spar	3	None Declared	A22364 352	British	Spar (Alfred Jones[Warrington] Ltd)	165 - 167 Moorside Road, Urmston, Manchester, M41 5SJ
401020	Flat Lettuce	Round	Kwikfruits	3	02 SEP 02	None Declared	UK	Kwik Save	1 Victoria Parade, Urmston, Manchester, M41 9BP
401021	Iceberg	Iceberg	Kwikfruits	3	09 SEP 02	None Declared	England	Kwik Save	1 Victoria Parade, Urmston, Manchester, M41 9BP
401022	Leafy Salad	Mixed	Bryan's	3	05/09/02	None Declared	More than one country	So Fresh	28 Moorfield Walk, Urmston, Manchester, M41 0TT
401023	Cos Lettuce	Cos	None Declared	3	None Declared	None Declared	English	So Fresh	28 Moorfield Walk, Urmston, Manchester, M41 0TT
401024	Round Lettuce	Round	None Declared	3	None Declared	None Declared	Cambs (information from retailer)	G Hickman	185 Shenley Road, Borehamwood, Herts, WD6 1AW
401025	Caesar Salad - Romaine Lettuce with Sachets of Caesar Dressing, Parmesan Cheese and Croutons	Other	Naturo	3	14 SEP	NF3 15:38	None Declared	Costco	Hartspring Lane, Watford, Herts, WD25 8JS

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401026	Iceberg Lettuce	Iceberg	Safeway	3	None Declared	3496/03	British	Safeway	299 Uxbridge Road, Hatch End, Middlesex, HA5 4QT
401027	Little Gem	Little Gem	Asda	3	None Declared	520019	West Sussex	Asda	Odhams Trading Estate, St Albans Road, Watford, Herts, WD24 7RT
401028	Leafy Salad	Mixed	Tesco	3	16 SEP	Line 1 22:24	Packed in UK	Tesco	1 Ash Hill Road, Rickmansworth Road, Pinner, Middlesex, HA5 2AG
401029	Spinach Mini Portions	Frozen Spinach	Safeway	3	01-2004	Lot. 2206 UB 08:17	Packed in EC	Safeway	299 Uxbridge Road, Hatch End, Middlesex, HA5 4QT
401030	Fresh Leaf Spinach	Bagged Mature Spinach	Tesco	4	None Declared	08:45 EM03	Holland	Tesco	1 Ash Hill Road, Rickmansworth Road, Pinner, Middlesex, HA5 2AG
401031	Rocket Salad - Salad Leaves with Rocket and Mizuna	Mixed	Tesco	3	14 SEP	NF6	Packed in UK	Tesco	1 Ash Hill Road, Rickmansworth Road, Pinner, Middlesex, HA5 2AG
401032	Crispy Salad	Mixed	Florette	3	13 SEP	5 17.27 OIL	Lichfield (UK)	Costco	Hartspring Lane, Watford, Herts, WD25 8JS
401033	Italian Style Salad	Mixed	Marks & Spencer	8	19 SEP	1922 5 0827 257	Produce of various countries	Marks & Spencer	157 Hillsborough Road, Sprucefield, Lisburn, BT27 5UT
401035	Iceberg Lettuce	Iceberg	Co-Op	3	None Declared	None Declared	Packed in the UK	Co-Op	Lisburn Road, Belfast, BT9 7EJ

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401036	Young Spinach	Baby Spinach	Marks & Spencer	3	22 SEP	AM 1901	British	Marks & Spencer	157 Hillsborough Road, Sprucefield, Lisburn, BT27 5UT
401037	Lambs Lettuce	Other	Morrisons	3	19 SEP	NF 5 07:02	None Declared	Morrisons	280 Coventry Road, Small Heath, Birmingham, B10 0XA
401038	Tender Leaf Salad	Mixed	Morrisons	3	19 SEP	NF 3 06:32	None Declared	Morrisons	280 Coventry Road, Small Heath, Birmingham, B10 0XA
401039	French Style Salad	Mixed	Morrisons	3	21 SEP	NF 2 3 00:46	None Declared	Morrisons	280 Coventry Road, Small Heath, Birmingham, B10 0XA
401040	Mediterranean Style Salad	Mixed	Morrisons	3	20 SEP	5 13:25 02	None Declared	Morrisons	280 Coventry Road, Small Heath, Birmingham, B10 0XA
401041	Spinach	Loose Spinach	None Declared	approx. 300g	None Declared	None Declared	UK	Ravi Foodstore	213 Wilmslow Road, Rusholme, Manchester, M14 5AG
401042	Leaf Spinach in Brine	Canned Spinach	Triple Lion	2	JUN 2004	T2500 L1160	EEC	Manchester Superstore	382 Cheetham Hill Road, Manchester, M8 9LF
401043	Round Lettuce	Round	Co-Op	3	SEP 26	5356	English	United Co-Op Superstore	389 Bolton Road, Irlam O'th Heights, Salford, M6 7NJ
401044	Chopped Spinach in Water, Salt Added	Canned Spinach	Bondville	3	JUN 2003	X41177 EH 08.48	EC	United Co-Op Superstore	389 Bolton Road, Irlam O'th Heights, Salford, M6 7NJ

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401045	Tuscany Style Salad	Mixed	Morrisons	3	29 SEP	NF 3 20:09	None Declared	Morrisons	7 Irwell Place, Eccles, M30 0FH
401046	French Style Salad	Mixed	Morrisons	3	01 OCT	NF 2 4 22:45	None Declared	Morrisons	7 Irwell Place, Eccles, M30 0FH
401047	Curly Lettuce	Other	Morrisons	3	None Declared	A 22801	UK	Morrisons	7 Irwell Place, Eccles, M30 0FH
401048	Crisp Mixed Salad	Mixed	Morrisons	3	01 OCT	NF2 4 00:44	None Declared	Morrisons	7 Irwell Place, Eccles, M30 0FH
401049	Mediterranean Style Salad	Mixed	Morrisons	3	28 SEP	1 09:36 02L	None Declared	Morrisons	7 Irwell Place, Eccles, M30 0FH
401050	Hot House Lettuce	Round	Morrisons	3	None Declared	A 22434	UK	Morrisons	7 Irwell Place, Eccles, M30 0FH
401051	Fresh Lettuce	Round	Willowpack Salads	3	None Declared	None Declared	None Declared	T. Wyper	Unit 12, Inshops, 23 High Street, Paisley, Renfrewshire, PA1 2AW
401052	Iceberg	Iceberg	PDM	3	None Declared	None Declared	Chadwell Park Farm, Great Chadwell, Newport, Shropshire, TF10 9BN	T. Wyper	Unit 12, Inshops, 23 High Street, Paisley, Renfrewshire, PA1 2AW

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401053	Baby Leaf Spinach	Baby Spinach	Somerfield	3	02 OCT	11227 268	Packed in the UK	Somerfield	East Lane, Paisley, Renfrewshire, PA1 1QA
401054	Crispy Green Salad	Mixed	Somerfield	3	04 OCT	Line 13:28	Packed in the UK	Somerfield	East Lane, Paisley, Renfrewshire, PA1 1QA
401055	Spinach	Loose Spinach	None Declared	4 plants	None Declared	None Declared	UK	Laura's Fruit Bowl	158 Cowbridge Road East, Canton, Cardiff, CF11 9ND
401056	Baby Spinach	Baby Spinach	Safeway	3	26 OCT	2930 9/1 L8 12:30	UK (confirmed by Safeway staff)	Safeway	Ty Glas Road, Llanishen, Cardiff, CF15 4EB
401057	Wild Rocket	Rocket	Safeway	6	23 OCT	L7 29309/4 11:40	None Declared	Safeway	Ty Glas Road, Llanishen, Cardiff, CF15 4EB
401058	Continental Four Leaf Salad	Mixed	Sainsbury's	6	23 OCT	Line 7 15:25	Product of more than country	Sainsbury's	Colchester Avenue, Roath, Cardiff, CF3 7XN
401059	Spinach Leaf	Canned Spinach	Sainsbury's	6	MAY 2005	45S H2135	Netherlands	Sainsbury's	Colchester Avenue, Roath, Cardiff, CF3 7XN
401060	Jardin Salad	Mixed	Tesco	3	12 OCT	Line 1 13:56	None Declared	Tesco	Old North Road, Royston, Herts, SG8 5UA
401061	Organic Romaine Lettuce	Organic Whole	Tesco	3	None Declared	GS 01	Britain	Tesco	Old North Road, Royston, Herts, SG8 5UA

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401062	Lollo Rosso Lettuce	Red	Tesco	3	None Declared	GS 01	Britain	Tesco	Old North Road, Royston, Herts, SG8 5UA
401063	Rocket Salad	Mixed	Tesco	3	11 OCT	NF7 10:14	Packed in the UK	Tesco	Old North Road, Royston, Herts, SG8 5UA
401064	Italian Style Salad	Mixed	Tesco	3	13 OCT	Line 6 21:11	Packed in the UK	Tesco	Old North Road, Royston, Herts, SG8 5UA
401065	Continental Salad	Mixed	Somerfield	3	12 OCT	Line 7 21:30	Packed in the UK	Somerfield	Baldock Street, Royston, Herts, SG8 5BA
401066	Rocket	Rocket	Somerfield	3	08 OCT	8 1530 275	Packed in the UK	Somerfield	65 - 67 High Street, Buntingford, Herts, SG9 9AE
401067	Lollo Rosso Lettuce	Red	None Declared	4	None Declared	None Declared	France (information from retailer)	A C Pearce & Sons	A10 Farm Shop, Hamels Park Farm, Hamels Park, Buntingford, Hertfordshire, SG9 9NA
401068	Red Oak Leaf Lettuce	Red	None Declared	4	None Declared	None Declared	France (information from retailer)	A C Pearce & Sons	A10 Farm Shop, Hamels Park Farm, Hamels Park, Buntingford, Hertfordshire, SG9 9NA
401069	Summer Salad	Mixed	Florette	3	08 OCT	3 14:15 01L	Lichfield (UK)	Tesco	Old North Road, Royston, Herts, SG8 5UA

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401070	Endive	Other	None Declared	5	None Declared	None Declared	France (information from retailer)	A C Pearce & Sons	A10 Farm Shop, Hamels Park Farm, Hamels Park, Buntingford, Hertfordshire, SG9 9NA
401071	Round Lettuce	Round	Asda	3	None Declared	0301141	UK	Asda	Barton Dock Road, Trafford Park, Manchester, M41 7ZA
401072	Curly Lettuce	Other	Asda	3	None Declared	0301141	UK	Asda	Barton Dock Road, Trafford Park, Manchester, M41 7ZA
401073	Iceberg Lettuce	Organic Whole	Asda	3	None Declared	605617	USA	Asda	Barton Dock Road, Trafford Park, Manchester, M41 7ZA
401075	Spinach	Bagged Mature Spinach	Asda	3	None Declared	700008	Kent	Asda	Barton Dock Road, Trafford Park, Manchester, M41 7ZA
401077	Rocket	Rocket	Asda	3	31 OCT	04 S 06:15	UK	Asda	Barton Dock Road, Trafford Park, Manchester, M41 7ZA
401078	Continental Salad	Mixed	Asda	3	29 OCT	18:24 L1	UK	Asda	Barton Dock Road, Trafford Park, Manchester, M41 7ZA
401079	Fresh Round Lettuce	Round	None Declared	3	None Declared	None Declared	Northern Ireland	Henderson's	North Street, Lurgan, Co. Armagh, BT67 9AG
401080	Fresh Round Lettuce	Round	None Declared	3	None Declared	None Declared	Northern Ireland	Centra	High Street, Portadown, Co. Armagh, BT62 1HZ

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401082	Continental Four Leaf Salad	Mixed	Sainsbury's	6	09 NOV	Line 7 07:45 07:46	None Declared	Sainsbury's	Rushmere Shopping Centre, Craigavon, Co. Armagh, BT64 1AA
401083	Iceberg	Iceberg	Prima	3	None Declared	None Declared	Spain	Henderson's	North Street, Lurgan, Co. Armagh, BT67 9AG
401084	Baby Spinach	Baby Spinach	Tesco	6	15 NOV	JM L6 16:26 JM L6 16:28	Spain	Tesco	Campbell Way, Worsley, Walkden, Salford, M28 5BT
401085	Organic Little Gems	Organic Whole	Tesco	3	None Declared	14 NOV GS06	Spain	Tesco	Campbell Way, Worsley, Walkden, Salford, M28 5BT
401086	Crispy Green Salad	Mixed	Sainsbury's	3	14 NOV	P0251 07 06:43	Packed in the UK	Sainsbury's	100 Regent Road, Salford, Manchester, M5 4QU
401087	Baby Lettuce	Little Gem	Agricola El Nino Del Campo, S. L.	3	None Declared	L45/07 WT- WW	Spain	Lidl	2 Woodrow Way, Irlam, Manchester, M44 6NN
401088	Organic Romaine Lettuce	Organic Whole	Tesco	3	None Declared	14 NOV GS06	Italy	Tesco Extra	Woodrow Way, Irlam, Manchester, M44 6BL
401089	Four Leaf Salad	Mixed	Tesco	3	17 NOV	Line 7 14:34	Packed in the UK	Tesco Extra	Woodrow Way, Irlam, Manchester, M44 6BL
401090	Loose Spinach	Loose Spinach	None Declared	300g	None Declared	None Declared	English (information from retailer)	Harry's Fruit Shop	14A Thornhill, Johnstone, Renfrewshire, PA5 8JQ

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401091	Fresh Italian Spinach	Bagged Mature Spinach	Ortodaunia S. r. l.	4	None Declared	None Declared	Italy	Harry's Fruit Shop	14A Thornhill, Johnstone, Renfrewshire, PA5 8JQ
401092	Spinach	Bagged Mature Spinach	Naturo	4	None Declared	315 11:28	Spain Packed in Sussex	Harry's Fruit Shop	14A Thornhill, Johnstone, Renfrewshire, PA5 8JQ
401093	Round Lettuce	Round	Gore Hall	3	None Declared	None Declared	<i>(English on box)</i>	Harry's Fruit Shop	14A Thornhill, Johnstone, Renfrewshire, PA5 8JQ
401094	Crispy Lettuce	Mixed	Florette	3	30 NOV	5 16:03 05L	UK (Lichfield)	Safeway	Ty Glas Road, Llanishen, Cardiff, CF15 4EB
401095	Leafy Salad	Mixed	Tesco	6	03 DEC	None Declared	British Packed	Tesco Extra	Western Avenue, Llandaff, Cardiff, CF14 3AT
401096	Organic Little Gem	Organic Whole	Marks & Spencer	4	None Declared	1816	Spain	Marks & Spencer	Culverhouse Cross, Ely, Cardiff, CF5 6YZ
401097	Spinach	Organic Spinach	None Declared	1.05kg	None Declared	None Declared	<i>Shop Assistant unsure but believes it is foreign</i>	Arjuna Wholefoods	12 Mill Road, Cambridge, CB1 2AD
401098	Organic Little Gem	Organic Whole	Sainsbury's	3	None Declared	00166A	Spain	Sainsbury's	170 Heaton Park Road, Manchester, M9 3QS
401099	Wild Rocket	Rocket	Sainsbury's	3	03 DEC	81317 332	Packed in the UK	Sainsbury's	170 Heaton Park Road, Manchester, M9 3QS

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401100	Spinach	Loose Spinach	None Declared	1 kg	None Declared	None Declared	Cyprus	Khawaja Bros Co. Ltd	378 Cheetham Hill Road, Manchester, M8 9LS
401101	Organic Baby Spinach	Organic Spinach	Tesco	6	06 DEC	NF2 14:56	Spain Packed in UK	Tesco	Bury New Road, Prestwich, Manchester, M25 7BL
401102	Mediterranean Style Salad	Mixed	Morrisons	3	06 DEC	6 11:40 02	Produced in the UK	Morrisons	7 Irwell Place, Eccles, M30 0FH
401103	Lollo Rosso	Red	Tesco	3	None Declared	GS 01	Spain	Tesco	Bury New Road, Prestwich, Manchester, M25 7BL
401104	Green Oak Leaf Lettuce	Organic Whole	None Declared	3	None Declared	None Declared	<i>Believed to be from France</i>	Arjuna Wholefoods	12 Mill Road, Cambridge, CB1 2AD
401105	Crest Lettuce	Red	Sainsbury's	4	None Declared	B0546 B	Spain	Sainsbury's	Coldhams Lane, Cambridge, CB1 3HP
401106	Organic Baby Leaf Spinach	Organic Spinach	Sainsbury's	3	29 NOV	101426328	Packed in UK, UK 5	Sainsbury's	Coldhams Lane, Cambridge, CB1 3HP
401107	Round Lettuce	Round	Sainsbury's	3	None Declared	F0421	Northern Ireland	Sainsbury's	Rushmere Shopping Centre, Craigavon, Co. Armagh, BT64 1AA
401109	Organic Rocket	Rocket	Sainsbury's	3	04 DEC	101104333	Packed in UK	Sainsbury's	Rushmere Shopping Centre, Craigavon, Co. Armagh, BT64 1AA

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401111	Continental Salad	Mixed	Asda	3	11 DEC	08:03 N1 127A	UK	Asda	Odhams Trading Estate, St Albans Road, Watford, Herts, WD24 7RT
401112	Iceberg Lettuce	Iceberg	Budgens	3	None Declared	5691	Spain	Budgens	Adkins Corner, Perne Road, Cambridge, CB1 3TE
401113	Crispy Leaf Salad	Mixed	Asda	3	10 DEC	01 S 09:23 050	UK	Asda	Odhams Trading Estate, St Albans Road, Watford, Herts, WD24 7RT
401114	Little Gem Lettuce - 50% Extra Free	Little Gem	Budgens	3	None Declared	3203	Spain	Budgens	Adkins Corner, Perne Road, Cambridge, CB1 3TE
401115	Iceberg Lettuce	Organic Whole	Asda	3	None Declared	603216	Italy	Asda	Odhams Trading Estate, St Albans Road, Watford, Herts, WD24 7RT
401116	Rocket	Rocket	Asda	5	10 DEC	04 S 050 08:24/ 08:25	UK	Asda	Odhams Trading Estate, St Albans Road, Watford, Herts, WD24 7RT
401117	Organic Baby Spinach	Organic Spinach	Tesco	6	14 DEC	NF4 10:07	Spain	Tesco	Yarrow Road, Cambridge, CB1 9BF
401118	Little Gem	Organic Whole	Marks & Spencer	5	None Declared	1816	Spain	Marks & Spencer	91 High Street, Watford, WD17 2DH
401119	Lollo Rosso Lettuce	Red	Tesco	3	None Declared	GS 01	Spain	Tesco Extra	239 - 241 Lower High Street, Watford, WD17 2BD

SAMPLE NUMBER	PRODUCT AS DESCRIBED¹	PRODUCT CATEGORY	BRAND¹	NUMBER OF UNITS PURCHASED	USE BY DATE¹	BATCH CODE¹	DECLARED ORIGIN¹	RETAILER	RETAILER ADDRESS
401120	Little Gems	Organic Whole	Tesco	4	None Declared	DL 06	Spain	Tesco Extra	239 - 241 Lower High Street, Watford, WD17 2BD

1: Product details from packaging.

Annex 2: Table of Results

sample number	Product type	Product category	Brand name	NO ₃ mean (mg/kg) recovery adjusted
400908	UK Mixed	Mixed	Somerfield	1303
4009009	UK Lettuce	Cos	Safeway	798
400910	Other Lettuce	Mixed	Morrisons	623
400911	UK Lettuce	Round	Sainsbury's	2792
400912	UK Spinach	Bagged Spinach	Morrisons	655
400913	UK Lettuce	Lollo Rosso	Tesco	1573
400914	UK Lettuce	Iceberg	Waitrose	970
400915	UK Rocket	Rocket	Sainsbury's	330
400916	UK Lettuce	Little Gem	Morrisons	738
400919	UK Spinach	Bagged Spinach	Tesco	2190
400920	Other Lettuce	Little Gem	Gore Hall	541
400921	UK Lettuce	Iceberg	Tesco	1055
400922	UK Lettuce	Little Gem	Tesco	995
400925	UK Lettuce	Lollo Rosso	Tesco	2051
400926	UK Spinach	Organic Spinach	Marks & Spencer	120
400927	UK Lettuce	Cos	Marks & Spencer	479
400928	UK Rocket	Rocket	Marks & Spencer	645
400929	UK Lettuce	Iceberg	None Declared	810
400930	UK Lettuce	Round	None Declared	2038
400931	UK Lettuce	Little Gem	Tesco	641
400932	UK Spinach	Bagged Spinach	Tesco	1289
400933	UK Spinach	Bagged Spinach	Tesco	2460
400934	UK Lettuce	Iceberg	Tesco	848
400935	UK Lettuce	Round	Tesco	2419
400936	UK Lettuce	Iceberg	Tesco	24
400937	UK Lettuce	Cos	Tesco	249
400938	EU Spinach	Canned	Sainsbury's	652
400939	EU Spinach	Frozen	Sainsbury's	635
400940	UK Mixed	Rocket salad	Tesco	1387
400941	UK Lettuce	Lollo Rosso	Sainsbury's	999
400942	UK Lettuce	Little Gem	Tesco	258
400943	Other Mixed	Baby Leaf Salad	Sainsbury's	1639
400944	Other Mixed	Endive Radicchio	Somerfield	760
400945	Other Lettuce	Iceberg Blend	Sainsbury's	1136
400946	Other Lettuce	Iceberg	Sainsbury's	415
400947	EU Spinach	Frozen	Sainsbury's	122
400948	Other Spinach	Frozen Spinach	Morrisons	1013
400949	Other Lettuce	Cos	Morrisons	669
400950	UK Lettuce	Crest	Sainsbury's	1458
400951	UK Lettuce	Little Gem	Morrisons	1573
400953	UK Lettuce	Curly Lettuce	Waitrose	3433
400954	EU Lettuce	Organic Iceberg	Waitrose	531
400955	UK Lettuce	Cos	Waitrose	479
400956	UK Spinach	Baby Spinach	Waitrose	1119
400957	Other Lettuce	Cos	None Declared	973
400958	Other Lettuce	Iceberg	Fossa Eugenia	697
400959	EU Spinach	Baby Spinach	Vitacress	3178

sample number	Product type	Product category	Brand name	NO ₃ mean (mg/kg) recovery adjusted
400960	Other Mixed	Endive Radicchio	Waitrose	429
400961	Other Rocket	Rocket	Waitrose	3974
400962	UK Lettuce	Round	Waitrose	3785
400963	Other Mixed	Baby Leaf	Sainsbury's	1324
400964	Other Mixed	Red Leaf & Rocket	Sainsbury's	2197
400965	Other Rocket	Rocket	Sainsbury's	811
400966	UK Lettuce	Round	Sainsbury's	3478
400967	UK Lettuce	Little Gem	Sainsbury's	879
400968	Other Mixed	Garden Salad	Iceland	901
400969	UK Lettuce	Organic Whole	Tesco	2048
400970	UK Lettuce	Organic Whole	Tesco	616
400971	UK Lettuce	Iceberg	Tesco	720
400972	EU Mixed	Mixed	Florette	297
400973	UK Lettuce	Iceberg	Asda	854
400974	UK Lettuce	Cos	Asda	167
400975	UK Mixed	Crisp Leaf Salad	Asda	570
400976	UK Rocket	Rocket	Asda	4613
400977	UK Spinach	Bagged Mature	H.Baxter & Sons,	3357
400978	UK Lettuce	Cos	Sainsbury's	683
400979	Other Mixed	All Season Salad	Sainsbury's	655
400980	UK Lettuce	Lollo Rosso	Sainsbury's	3405
400981	Other Rocket	Rocket	Sainsbury's	979
400982	Other Rocket	Rocket	Sainsbury's	4563
400983	UK Lettuce	Iceberg	Westdene	1442
400984	Other Mixed	Simply Salad	G's	1229
400985	UK Lettuce	Little Gem	Merevale	1236
400986	UK Lettuce	Cos	Safeway	1623
400987	UK Spinach	Bagged Mature	Safeway	2320
400988	Other Rocket	Rocket	Safeway	5175
400989	UK Lettuce	Round	Safeway	2960
400990	EU Lettuce	Round	Safeway	3954
400991	UK Lettuce	Cos	Sainsbury's	1186
400992	UK Lettuce	Iceberg	Sainsbury's	1309
400993	EU Spinach	Canned Spinach	Sainsbury's	266
400994	UK Mixed	Italian Style Salad	Tesco	2054
400995	Other Lettuce	Round	None Declared	2940
400996	EU Lettuce	Lollo Verde	None Declared	1980
400997	UK Spinach	Loose Spinach	None Declared	2318
400998	EU Lettuce	Lollo Rosso	None Declared	2329
400999	UK Lettuce	Round	None Declared	3277
401000	Other Lettuce	Iceberg	None Declared	733
401001	Other Spinach	Frozen Spinach	Waitrose	78
401002	Other Rocket	Rocket	Waitrose	1976
401003	Other Mixed	Continental Salad	Waitrose	1878
401004	Other Lettuce	Iceberg	None Declared	1166
401005	UK Spinach	Baby Spinach	Waitrose	1954
401006	UK Lettuce	Organic Whole	Waitrose	1131
401007	Other Mixed	Organic	Waitrose	1290
401008	EU Spinach	Canned Spinach	Waitrose	642

sample number	Product type	Product category	Brand name	NO ₃ mean (mg/kg) recovery adjusted
401009	Other Lettuce	Iceberg	None Declared	369
401010	EU Spinach	Frozen Spinach	Asda	350
401012	UK Lettuce	Round	Asda	1380
401013	UK Lettuce	Other	Asda	2588
401014	EU Lettuce	Iceberg	Prima	304
401015	UK Lettuce	Lollo Rosso	Safeway	1659
401016	EU Lettuce	Organic Iceberg	Safeway	858
401017	UK Spinach	Bagged Mature	Tesco	2488
401018	EU Lettuce	Iceberg	None Declared	787
401019	UK Lettuce	Iceberg	Spar	847
401020	UK Lettuce	Round	Kwikfruits	4183
401021	UK Lettuce	Iceberg	Kwikfruits	1218
401022	Other Mixed	Leafy Salad	Bryan's	816
401023	UK Lettuce	Cos	None Declared	1583
401024	UK Lettuce	Round	None Declared	3649
401025	Other Mixed	Caesar Salad	Naturo	216
401026	UK Lettuce	Iceberg	Safeway	917
401027	UK Lettuce	Little Gem	Asda	466
401028	UK Mixed	Leafy Salad	Tesco	1506
401029	EU Spinach	Frozen Spinach	Safeway	292
401030	EU Spinach	Bagged Mature	Tesco	2303
401031	UK Mixed	Rocket and Mizuna	Tesco	2287
401032	UK Mixed	Crispy Salad	Florette	702
401033	Other Mixed	Italian Style Salad	Marks & Spencer	1565
401035	UK Lettuce	Iceberg	Co-Op	1662
401036	UK Spinach	Baby Spinach	Marks & Spencer	2180
401037	Other Lettuce	Lambs Lettuce	Morrisons	3699
401038	Other Mixed	Tender Leaf Salad	Morrisons	2210
401039	Other Mixed	French Style Salad	Morrisons	313
401040	Other Mixed	Mediterranean style	Morrisons	860
401041	UK Spinach	Loose Spinach	None Declared	2285
401042	EU Spinach	Canned Spinach	Triple Lion	572
401043	UK Lettuce	Round	Co-Op	3685
401044	EU Spinach	Canned Spinach	Bondville	464
401045	Other Mixed	Tuscany Style	Morrisons	1953
401046	Other Mixed	French Style	Morrisons	2066
401047	UK lettuce	Curly	Morrisons	3138
401048	Other Mixed	Mixed	Morrisons	886
401049	Other Mixed	Mediterranean style	Morrisons	943
401050	UK Lettuce	Round	Morrisons	2646
401051	Other Lettuce	Round	Willowpack Salads	3592
401052	UK Lettuce	Iceberg	PDM	1010
401053	UK Spinach	Baby Spinach	Somerfield	590
401054	UK Mixed	Mixed	Somerfield	1219
401055	UK Spinach	Loose Spinach	None Declared	1699
401056	UK Spinach	Baby Spinach	Safeway	1631
401057	Other Rocket	Rocket	Safeway	3897
401058	Other Mixed	Four Leaf	Sainsbury's	2120
401059	EU Spinach	Canned Spinach	Sainsbury's	416

sample number	Product type	Product category	Brand name	NO ₃ mean (mg/kg) recovery adjusted
401060	Other Mixed	Jardin Salad	Tesco	2169
401061	UK Lettuce	Organic Whole	Tesco	1519
401062	UK Lettuce	Lollo Rosso	Tesco	2553
401063	UK Mixed	Rocket Salad	Tesco	2375
401064	UK Mixed	Italian Style Salad	Tesco	2339
401065	UK Mixed	Continental Salad	Somerfield	2266
401066	UK Rocket	Rocket	Somerfield	3270
401067	EU Lettuce	Lollo Rosso	None Declared	1158
401068	EU Lettuce	Red Oak Leaf	None Declared	1598
401069	UK Mixed	Summer Salad	Florette	1466
401070	EU Other	Endive	None Declared	1223
401071	UK Lettuce	Round	Asda	5913
401072	UK Lettuce	Curly Lettuce	Asda	4166
401073	Other Lettuce	Organic Whole	Asda	1110
401075	UK Spinach	Bagged Mature	Asda	3039
401077	UK Rocket	Rocket	Asda	4774
401078	UK Mixed	Continental Salad	Asda	1427
401079	UK Lettuce	Round	None Declared	3385
401080	UK Lettuce	Round	None Declared	4237
401082	Other Mixed	Four Leaf Salad	Sainsbury's	2297
401083	EU Lettuce	Iceberg	Prima	519
401084	EU Spinach	Baby Spinach	Tesco	2691
401085	EU Lettuce	Organic Whole	Tesco	785
401086	UK Mixed	Mixed	Sainsbury's	811
401087	EU Lettuce	Little Gem	Agricola El Nino	1608
401088	EU Lettuce	Organic Whole	Tesco	1148
401089	UK Mixed	Four Leaf Salad	Tesco	866
401090	UK Spinach	Loose Spinach	None Declared	686
401091	EU Spinach	Bagged Mature	Ortodaunia S. r. l.	3182
401092	EU Spinach	Bagged Mature	Naturo	4357
401093	UK Lettuce	Round	Gore Hall	4342
401094	UK Lettuce	Crispy Lettuce	Florette	1469
401095	UK Mixed	Mixed	Tesco	1042
401096	EU Lettuce	Organic Whole	Marks & Spencer	1240
401097	Other Spinach	Organic Spinach	None Declared	1497
401098	EU Lettuce	Organic Whole	Sainsbury's	676
401099	UK Rocket	Rocket	Sainsbury's	4147
401100	Other Spinach	Loose Spinach	None Declared	1934
401101	EU Spinach	Organic Spinach	Tesco	3082
401102	UK Mixed	Mediterranean Style	Morrisons	850
401103	EU Lettuce	Lollo Rosso	Tesco	3239
401104	EU Lettuce	Organic Whole	None Declared	1898
401105	EU Lettuce	Crest Lettuce	Sainsbury's	1407
401106	UK Spinach	Organic Spinach	Sainsbury's	3443
401107	UK lettuce	Round	Sainsbury	4000
401109	UK Rocket	Rocket	Sainsbury's	962
401111	UK Mixed	Continental Salad	Asda	1125
401112	EU Lettuce	Iceberg	Budgens	1154
401113	UK Mixed	Mixed	Asda	607

sample number	Product type	Product category	Brand name	NO ₃ mean (mg/kg) recovery adjusted
401114	EU Lettuce	Little Gem	Budgens	1348
401115	EU Lettuce	Organic Whole	Asda	853
401116	UK Rocket	Rocket	Asda	7572
401117	EU Spinach	Organic Spinach	Tesco	2072
401118	EU Lettuce	Organic Whole	Marks & Spencer	916
401119	EU Lettuce	Lollo Rosso	Tesco	3011
401120	EU Lettuce	Organic Whole	Tesco	1330

EU refers to samples from Member States other than the UK.

'Other' refers to produce from outside the EU or where no country of origin was declared.

*Recovery: this is the percentage of nitrate recovered from the quality-assurance samples (using the same procedures described for test samples).