



PROJECT DELIVERABLE

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7.1	Database to collect the results of the sample analysis in order to compare the theoretical models elaborated by WP 7 with real data	7	ISS	O	PU	30

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SUMMARY

This report is only intended to give a brief overview of the Database that was created within the baseline project.

The purpose of the database was to have one collection of all data that were collected from different experiments for both microbial and chemical data within the Workpackages WP1 to WP5. Initially, two templates in Excel; one for the microbial data and one for the chemical data were proposed for the WP1 to WP5. Both data for modeling distributions of risk agents (natural data) as well as other more experimental data have been collected and collapsed into this database.

During the process of receiving data both from prevalence studies as well as from experiments, the number and names of the original proposed templates have been changed.

The database of Microbial risk agents at MONTH 30 contained 9403 observations, with 49 individual variables.

The database of Chemical risk agents at MONTH 30 contained 18 284 observations, with 38 individual variables.

In addition datasheets containing information of the content of the variables as well as information regarding sampling procedures, flowcharts and the analytical methodology used have been included where it was available and appropriate.

For the further work, this database will serve to include all the future experimental data within WP1 to WP5. However, to ensure a common format and content for future data collection it will be of importance to read this document as well as to study the descriptive information in the database itself. For all eventually, totally new datasets that could not be combined with an existing dataset a new Dataset has to be created; named Baseline_X, where X is a new number not used before. This could be given by request to the taskleader of 7.1. The data will then be read in by SAS v 9.1 (SAS Institute Inc., Cary, NC, USA) and collapsed with previous data into either the MICROBIAL or the CHEMICAL sheet, respectively.

DESCRIPTION OF THE DATABASE STRUCTURE

The database was created in Excel (version 97, 2003). However, all the database management has been performed using SAS v 9.1 (SAS Institute Inc., Cary, NC, USA). The final database at the present stage has been exported into one final database “Deliverable 7.1.

To be able to include both Microbial data and Chemical data into one common database, it was decided to make two separate excel sheets, one for the microbial data (MICROBIAL) and one for the chemical data(CHEMICAL).

Name of the Sheets

The name and the links between the datasheets are described in Figure 1 and in the following text. The database contains one sheet with all the microbial data which was named MICROBIAL and one sheet for all the chemical data named CHEMICAL, with one sheet for each with explanations of the variables included named Info_MICROBIAL and Info_CHEMICAL. Each received dataset was numbered continuously given the names Baseline_1, Baseline_2 and so on. An additional variable was given to the dataset to describe which dataset the data belonged to.

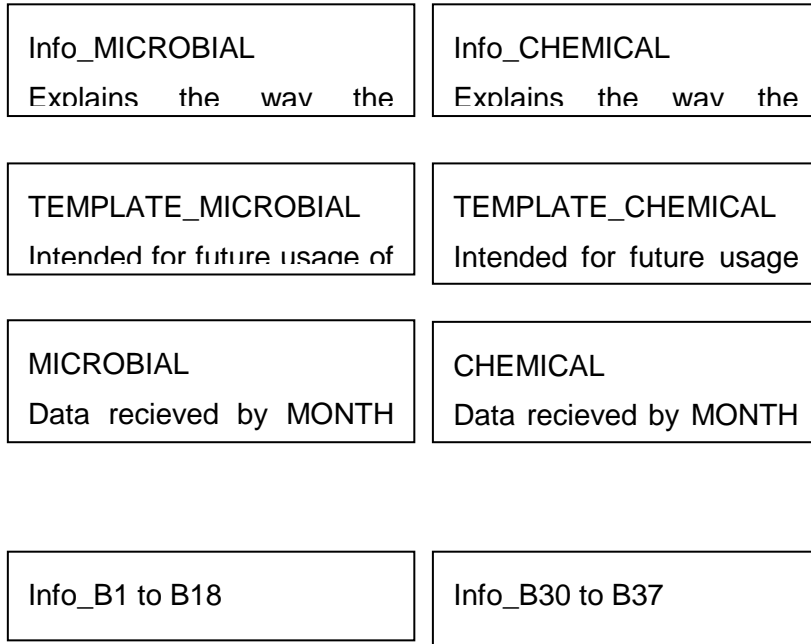
The variables were given an abbreviation of Baseline_1 =B1, Baseline_2=B2.

Additionally sheets called INFO_Dataset_name from B1_B37 were created to contain flowcharts where the sampling points for each sample could be shown and further as a reference to the different datasets for further description of how the sampling was performed.

The description of the variables included are described in two separate sheets

Templates for new data one for MICROBIAL one for CHEMICAL are provided as two separate sheets for adding new data to the database; TEMPLATE_MICROBIAL and TEMPLATE_CHEMICAL.

Figure 1. Structure of the Database showing the name of the sheets for the collection of data from experiments



METADATA

Metadata describes the Variable names, the type character or numerical, the length, the format, the inmat as well as the label of the variables.

Metadata of the variables included in the sheet MICROBIAL

The metadata of the variables included in the sheet MICROBIAL are described in Table 1.

All variables except for the variables referring to dates; Nr 1, 33 and 34, have been defined to be in text format= character. This was done because several of the entries in variables that naturally would have been defined as numerical contained characters in some of the datasets. First after cleaning up the data, by using the character format it can be transformed to numerical variables. However, because new datasets also may contain characters in those variables it was decided to keep the character format. For separate analyses, new numerical variables have to be created from those variables where this could be an option.

Table 1. Metadata of the variables included in the sheet MICROBIAL of the database

Nr	Variable	Type	Length	Format	Informat	Label
1	Date of sampling_dd:mm:yyyy	Num	8	DATE9.	DATE9.	Date of sampling_dd:mm:yyyy
2	ID	Char	28	\$22.	\$22.	ID
3	Country	Char	28	\$19.	\$19.	Country
4	Laboratory	Char	28	\$11.	\$11.	Laboratory
5	Sampled material	Char	28	\$20.	\$20.	Sampled material
6	Food Product	Char	28	\$28.	\$22.	Food Product
7	Risk agent	Char	28	\$28.	\$28.	Risk agent
8	Food chain step/Sampling point	Char	28	\$22.	\$22.	Food chain step/Sampling point
9	Producer ID	Char	28	\$18.	\$8.	Producer ID
10	Sampling_Strategy	Char	28	\$15.	\$10.	Sampling_Strategy
11	Sampling_Method	Char	28	\$12.	\$6.	Sampling_Method
12	Primary/bulksample/number/code	Char	28	\$28.	\$12.	Primary/bulksample/number/code
13	Spiked sample: Contamination lev	Char	28	\$12.	\$8.	Spiked sample: Contamination level cfu/g
14	Mass of primary/bulk sample (g)	Char	28	\$8.	\$8.	Mass of primary/bulk sample (g)
15	Lot number	Char	28	\$12.	\$12.	Lot number
16	n	Char	28	\$6.	\$6.	n
17	c	Char	28	\$6.	\$6.	c
18	m	Char	28	\$20.	\$12.	m
19	M1	Char	28	\$20.	\$22.	M1
20	Daytime	Char	28	\$22.	\$22.	Daytime
21	Hours after production	Char	28	\$22.	\$22.	Hours after production

22	Time after cleaning/desinfection	Char	28	\$6.	\$6.	Time after cleaning/desinfection
23	Transport	Char	28	\$18.	\$10.	Transport
24	T (°C)	Char	28	\$8.	\$8.	T (°C)
25	T (°C) point sale	Char	28	\$10.	\$10.	T (°C) point sale
26	T (°C) receipt# Lab	Char	28	\$10.	\$10.	T (°C) receipt# Lab
27	T (°C) time analysis	Char	28	\$10.	\$10.	T (°C) time analysis
28	pH	Char	28	\$10.	\$10.	pH
29	aw	Char	28	\$10.	\$10.	aw
30	Gas_concentration	Char	28	\$12.	\$8.	Gas_concentration
31	Preservatives	Char	28	\$24.	\$24.	Preservatives
32	Desinfectants	Char	28	\$17.	\$17.	Desinfectants
33	Date of analysis	Num	8	DATE9.	DATE9.	Date of analysis
34	Expiry date	Num	8	DATE9.	DATE9.	Expiry date
35	Sample_size	Char	28			
36	Sample_unit	Char	28			
37	Replicate_sample_number	Char	28	\$10.	\$10.	Replicate_sample_number
38	Mass of subsample (g)	Char	28	\$9.	\$9.	Mass of subsample (g)
39	Analytical_Method	Char	32	\$16.	\$16.	Analytical_Method
40	Analytical unit	Char	32	\$13.	\$13.	Analytical unit
41	Agar	Char	32	\$16.	\$16.	Agar
42	Qualitative results	Char	32	\$20.	\$8.	Qualitative results
43	Results (PCR of colony)	Char	32	\$8.	\$8.	Results (PCR of colony)
44	Quantitative result	Char	32	\$14.	\$14.	Quantitative result
45	Detectionlimit	Char	32	\$14.	\$14.	Detectionlimit
46	Species_ID	Char	32			Species_ID
47	Flowchartpoint	Char	32	\$16.	\$16.	Flowchartpoint
48	Dataset	Char	32	\$16.	\$16.	Dataset
49	Remarks	Char	50	\$50.	\$50.	Remarks

Metadata of the variables included in the sheet CHEMICAL

The metadata of the variables included in the sheet CHEMICAL are described in Table 2.

All variables except for the variables referring to dates; Nr 4 and 17, have been defined to be in text format= character. This was done because several of the entries in variables that naturally would have been defined as numerical contained characters in some of the datasets. First after cleaning up the data, by using the character format it can be transformed to numerical variables. However, because new datasets also may contain characters in those variables it was decided to keep the character format. For separate analyses, new numerical variables have to be created from those variables where this could be an option.

Table 2. Metadata of the variables included in the sheet CHEMICAL of the database

Nr	Variable	Type	Length	Format	Informat	Label
1	Laboratory	Char	12			Laboratory
2	Description of the product	Char	28			Description of the product
3	Sampling point	Char	16			Sampling point
4	Date of sampling	Num	8	DATETIME18.	DATETIME18.	Date of sampling
5	Lot number	Char	12			Lot number
6	Sampling strategy	Char	19			Sampling strategy
7	Sampling method	Char	17			Sampling method
8	No of primary samples	Char	23			No of primary samples
9	Replicate sample code	Char	26			Replicate sample code
10	Mass of bulk sample, kg	Char	26			Mass of bulk sample, kg
11	Mass of sub-sample, kg	Char	26			Mass of sub-sample, kg
12	Method of sample size reduction	Char	33			Method of sample size reduction
13	Sub-sample B code	Char	19			Sub-sample B code
14	Mass of subsample B, kg	Char	25			Mass of subsample B, kg
15	Test portion i#d	Char	18			Test portion id
16	Analytical method	Char	19			Analytical method

17	Date of analysis	Num	8	DATETIME18.	DATETIME18.	Date of analysis
18	Mass of test portion, g	Char	25			Mass of test portion, g
19	Name of chemical analysed	Char	27			Name of chemical analysed
20	Result code	Char	13			Result code
21	Result unit	Char	13			Result unit
22	Reported conc#	Char	16			Reported conc#
23	LOD	Char	5			LOD
24	LOQ	Char	5			LOQ
25	Analytical result, µg/kg	Char	27			Analytical result, µg/kg
26	Recovery %	Char	12			Recovery %
27	Result corrected for recovery	Char	31			Result corrected for recovery
28	Relative uncertainty of analysis	Char	34			Relative uncertainty of analysis
29	Transport	Char	11			Transport
30	Sub-sample A code	Char	19			Sub-sample A code
31	Method of sample size reduction1	Char	34			Method of sample size reduction1
32	DATASET	Char	9			DATASET
33	Result value corrected for recov	Char	34			Result value corrected for recovery
34	Mass of sub-sample, kg	Char	23			Mass of sub-sample, kg
35	Flow chart Id	Char	27			Flow chart Id
36	Recovery, %	Char	13			Recovery, %
37	Replicate sample code lab#	Char	28			Replicate sample code lab#
38	Sub-sample code	Char	17			Sub-sample code

DESCRIPTION OF THE VARIABLES

The description of the variables describes the content that should be included in the unique variables.

Description of the variables in the sheet MICROBIAL

The description of variables in the sheet MICROBIAL is presented in Table 3, which also have been included as a sheet in the final database (Info_MICROBIAL).

Table 3 Description of variables in the sheet MICROBIAL of the database

Nr	Variable	Description of the variable
1	Date of sampling_dd:mm:yyyy	Date where the sample was taken
2	ID	A unique identifier, might be anonymous
3	Country	Country of the Laboratory
4	Laboratory	Name of Laboratory as an abbreviation
5	Sampled material	Tissue sampled or more specified material
6	Food Product	End product of the Food item under the purpose of sampling
7	Risk agent	Microbial analysed for in the sample
8	Food chain step/Sampling point	Description of where in the production chain the sample was taken
9	Producer ID	A unique identifier of the producing company, might be anonymous
10	Sampling_Strategy	Reason of sampling: prevalence study/suspicion/experiment
11	Sampling_Method	Random/Systematic/Tracked/Convenience
12	Primary/bulksample/number/code	A unique identifier, of a larger primary or bulk sample from which subsamples were taken (might be anonymous)
13	Spiked sample: Contamination lev	The initial contamination level estimated as cfu/g where sampled have been spiked for experimental purpose
14	Mass of primary/bulk sample (g)	Mass in gramm of the primary/bulk sample
15	Lot number	A unique identifier of the lot, might be anonymous
16	n	number of units comprising the sample
17	c	Number of sample units giving values between m and M
18	m	m=Lowest limit that can't be exceeded by c
19	M1	M=Maximum limit_no samples can be>M

20	Daytime	AM/PM of the time where the sample was taken
21	Hours after production	Time in number of hours after the production has started
22	Time after cleaning/desinfection	Time in number of hours after the production facilities have been cleaned and disinfected
23	Transport	The circumstances of transportation of the food product for eks. frozen
24	T (°C)	Temperature in (°C) should be specified in remarks or INFO_Dataset
25	T (°C) point sale	Temperature of the sample in °C by the point of sale (retail)
26	T (°C) receipt# Lab	Temperature of the sample in °C by the time of reception in the Laboratory
27	T (°C) time analysis	Temperature of the sample in °C by the time of analysis
28	pH	pH of the sample by the time of reception in the Laboratory
29	aw	Water activity of the sample by the time of reception in the Laboratory
30	Gas_concentration	Concentration or description of any gas added to the food Product
31	Preservatives	Description/Name if any preservatives have been added
32	Desinfectants	Description/Name if any disinfectants have been added
33	Date of analysis	The date when the analysis was performed
34	Expiry date	The last date where a food product should be considered as safe for the consumer according to labelling of the package
35	Sample_size	The amount of the sample as a number
36	Sample_unit	The measurement unit of the sample preferable expressed as gramm (g) or (ml)
37	Replicate_sample_number	A unique identifier of the subsamples if this applies, might be anonymous
38	Mass of subsample (g)	The amount of the subsample that was sampled from the sample in gramm
39	Analytical_Method	The method used for analysis, might also be referred to in the Info_sheet
40	Analytical unit	The measurement unit of the quantitative results preferable cfu/g
41	Agar	Name of the agar used in the analyses

42	Qualitative results	Positive/Negative/. (=missing).
43	Results (PCR of colony)	Positive/Negative/. (=missing).
44	Quantitative result	A number showing the quantitative result Should be interpreted together both with the Analytical unit as well as the detection limit. For eks. 0, cfu/g/ 100- means that the quantitative result is <100cfu/g.
45	Detectionlimit	The number below which the quantitative analyses were not able to detect the agent. Needs to be interpreted together with the Analytical unit
46	Species_ID	The identified microbial agent where further identification have been performed
47	Flowchartpoint	The place in the flowchart diagram (Info_datasheetname) where the sample was taken
48	Dataset	The unique id of the original dataset
49	Remarks	Any other comments important to know where no other variable could be used.

Description of the variables in the sheet CHEMICAL

The description of variables in the sheet CHEMICAL is described in table 4 which also have been included as a sheet in the final database.

Table 4 Description of variables in the sheet CHEMICAL of the database

Nr	Variable	Description of the variable
1	Laboratory	Laboratory where the analysis was performed
2	Description of the product	End product of the Food item under the purpose of sampling
3	Sampling point	The place where the analysis was sampled
4	Date of sampling	The date when the sample was taken place
5	Lot number	A unique identifier of the lot if this applies, might be anonymous
6	Sampling strategy	Purpose of sampling suspicious, experiment, targeted, stratified, random
7	Sampling method	Random/systematic/convenient
8	No of primary samples	Number of primary samples taken from the commodity
9	Replicate sample code	A unique identifier of the subsamples if this applies, might be anonymous
10	Mass of bulk sample, kg	Mass of the bulk sample as a number
11	Mass of sub-sample, kg	Mass of the sub sample as a number

12	Method of sample size reduction	Method used to reduce the sample
13	Sub-sample B code	Unique identifier of the test sample
14	Mass of subsample B, kg	Mass of the sub sample B as a number
15	Test portion i#d	Unique identifier of the test sample
16	Analytical method	Method used can be described in the Info_sheet
17	Date of analysis	Date when the analysis was performed
18	Mass of test portion, g	Mass of test portion as a number if given in gramm
19	Name of chemical analysed	Name of chemical analysed
20	Result code	Code for the result
21	Result unit	Unit of the result e.g. mg/kg or microgram/kg
22	Reported conc#	Reported concentration of the sample
23	LOD	Limit of detection expressed in the same unit as the result
24	LOQ	Limit of the quantitative measurement expressed as the relative standard deviation
25	Analytical result , µg/kg	Result reported as µg/kg
26	Recovery %	Average recovery
27	Result corrected for recovery	Yes/No
28	Relative uncertainty of analysis	Expressed as rel. standard deviation
29	Transport	Method of transportation of the sample
30	Sub-sample A code	Unique identifier of Sub-sample A
32	DATASET	The unique id of the original dataset
34	Mass of sub-sample,kg	Mass of sub-sample,kg as a number
35	Flow chart Id	The place in the flowchart diagram (Info_datasheetname) where the sample was taken
37	Replicate lab# sample code	Unique identifier of replicate sample within the laboratory
38	Sub-sample code	Unique identifier

Example of the links between the Datasheets (MICROBIAL and CHEMICAL) and the Infosheets.

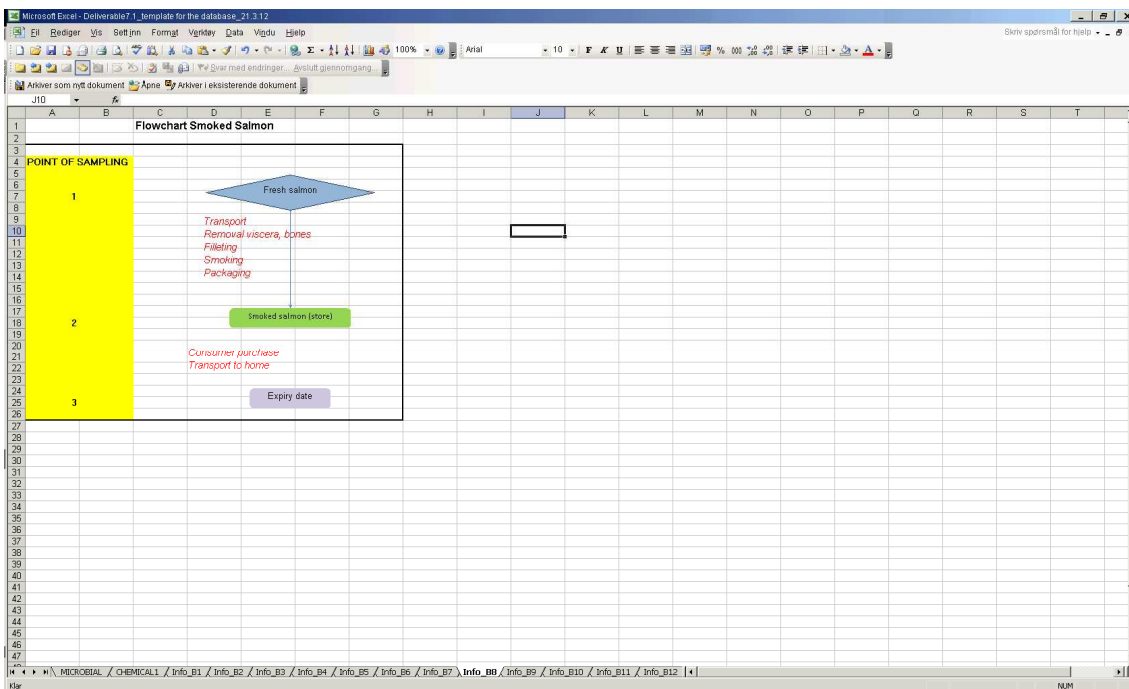
The link between the different Datasets (B1-B37) and the datasheets; Info_B1 to Info_B37 is described below with an example (Figure 1).

In the Info_B10 the Flowchart diagram of both production of cabbage, apple and Lettuce are shown. Because all these data were received as one dataset the Flowchartpoints in the diagram was given a letter and a number to identify which flowchart that belonged to which Food Product. Additionally information regarding the sampling design, have in some datasets been more thoroughly described and are then also included in the same INFO_sheets as the flowcharts.

The analytical methods and their characteristic could also be described within this sheet.

References to previous publications might also be included.

Figure 1 One of the Info sheets (Info_B8) in the database containing a flowchartdiagram and the corresponding Flowchart_ID (1, 2 and 3) which are referred to in the dataset B8.



CONTENT OF THE VARIABLES

Content of the variables (MICROBIAL) by MONTH 30

At Month 30, the content of each of the variables have been tried to be harmonized as much as possible without losing the information of the data. Mainly such transformations have been performed to have a similar spelling of the same content and to have the same format regardless of which format that were used for the recordings.

The following tables (5-54) describe the content at MONTH 30. For the unique variables and other variables where the number of variables are to long for this report (f.eks (Date of sampling; ID etc.),only the five first recordings are given. The IDs have been given anonymously

All missing recordings were transformed to “.” (POINT).

To be able to describe the Qualitative results, all the possible initial recordings were transformed to either Negative; Positive and “.”(missing).

To be able to describe the variable Quantitative results only a number was kept in this variable. The measurement unit was recorded in the variable named Analytical unit.

In case the variable Quantitative results was recorded as <100 or <10 etc. the Quantitative Result was given the Quantitative result 0 and the variable Detectionlimit was given the value 100 or 10, respectively. Following that the Quantitative result variable needs to be used together with the Detectionlimit.

Table 5. The first five recordings of the variable “Date of sampling_dd:mm:yyyy” in the MICROBIAL datasheet.

Date sampling_dd:mm:yyyy	of	Frequency	Percent	Cumulative Frequency	Cumulative Percent
04.feb.03	5		0,06	5	0,06
25.feb.03	2		0,02	7	0,08
04OCT2003	6		0,07	13	0,15
11OCT2003	4		0,05	17	0,19
18OCT2003	10		0,11	27	0,31

Table 6. The first five recordings of the variable “ID” in the MICOBIAL datasheet.

ID	Frequency	Percent	Cumulative Frequency	Cumulative Percent
C-GCL1A1-05(240)	1	0,01	1	0,01
C-GDL1A1-05(110)	1	0,01	2	0,02
C-GLFL1A1-05(245)	1	0,01	3	0,03
C-GPL1A1-05(105)	1	0,01	4	0,04
02/11/10 Tarasoo C65-7	5	0,05	9	0,1

Table 7. The recordings of the variable “Country” in the MICOBIAL datasheet.

Country	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Croatia	150	1,6	150	1,6
Germany	720	7,66	870	9,25
Ireland	4259	45,29	5129	54,55
Italy	1763	18,75	6892	73,3
NI	525	5,58	7417	78,88
Norway	320	3,4	7737	82,28
Spain	1666	17,72	9403	100

Table 8. The recordings of the variable “Laboratory” in the MICOBIAL datasheet.

Laboratory	Frequency	Percent	Cumulative Frequency	Cumulative Percent
ITACyL	608	6,47	608	6,47
NVI	320	3,4	928	9,87
Teagasc	4736	50,37	5664	60,24
TiHo	720	7,66	6384	67,89
UCD/Teagasc	48	0,51	6432	68,4
UN	1058	11,25	7490	79,66
UNIBO	1763	18,75	9253	98,4
VETFAC	150	1,6	9403	100

Table 9. The recordings of the variable “Sampled material” in the MICOBIAL datasheet.

Sampled material	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Caecal contents	193	2,05	193	2,05
Carcass	932	9,91	1125	11,96
Carcass post-chill	177	1,88	1302	13,85
Carcass pre-chill	193	2,05	1495	15,9
Cheese cuts	310	3,3	1805	19,2
Chop loin	1440	15,31	3245	34,51
Cubes	1	0,01	3246	34,52
Cured meat	60	0,64	3306	35,16
Eggshell	140	1,49	3446	36,65
Faeces	233	2,48	3679	39,13
Fillets	711	7,56	4390	46,69
Hide	667	7,09	5057	53,78
Meat	48	0,51	5105	54,29
Mix of leaves	390	4,15	5495	58,44
Pork pieces/cuts/min	500	5,32	5995	63,76
Rectal contents	193	2,05	6188	65,81
Stick	145	1,54	6333	67,35
Units	115	1,22	6448	68,57
Vegetable	340	3,62	6788	72,19
breast cap with skin	180	1,91	6968	74,1
bulk raw milk	62	0,66	7030	74,76
carcass with skin	540	5,74	7570	80,51
milk filter	80	0,85	7650	81,36
milk filter buffalo cows	1	0,01	7651	81,37
pork cuts	1392	14,8	9043	96,17
raw milk	40	0,43	9083	96,6
salmon portions, vacuum packed, frozen	320	3,4	9403	100

Table 10. The recordings of the variable “Food Product” in the MICROBIAL datasheet.

Food Product	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Beef	798	8,49	798	8,49
Bovine animal	1034	11	1832	19,48
Cabbage	220	2,34	2052	21,82
Fresh crabstick	130	1,38	2182	23,21
Fresh young eels	90	0,96	2272	24,16
Frozen crabstick	15	0,16	2287	24,32
Frozen young eels	25	0,27	2312	24,59
Hard cheese from raw milk	80	0,85	2392	25,44
Hard cheese pasteurised milk	80	0,85	2472	26,29
Lettuce	280	2,98	2752	29,27
Pig	903	9,6	3655	38,87
Pork	3233	34,38	6888	73,25
RTE lettuce	180	1,91	7068	75,17
Raw chicken	304	3,23	7372	78,4
Semi-Hard cheese pasteurised	150	1,6	7522	80
Smoked salmon	357	3,8	7879	83,79
Smoked trout	51	0,54	7930	84,33
Whole egg	140	1,49	8070	85,82
apple	50	0,53	8120	86,36
chicken	720	7,66	8840	94,01
chorizo	60	0,64	8900	94,65
raw milk	59	0,63	8959	95,28
raw milk for mozzarella production	1	0,01	8960	95,29
raw milk sold directly to consumers	62	0,66	9022	95,95
raw milk to be paseturized	61	0,65	9083	96,6
salmon	320	3,4	9403	100

Table 11. The recordings of the variable “Risk agent” in the MICOBIAL datasheet.

Risk agent	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Aerobic mesophilic	50	0,53	50	0,53
Campylobacter	1024	10,89	1074	11,42
E. coli O157	1034	11	2108	22,42
HAV	30	0,32	2138	22,74
L. monocytogenes	3325	35,36	5463	58,1
Salmonella	3697	39,32	9160	97,42
VTEC (O157/O26 and others)	143	1,52	9303	98,94
VTEC (O157/O26)	40	0,43	9343	99,36
hNoV ggl	30	0,32	9373	99,68
hNoV ggII	30	0,32	9403	100

Table 12. The first five recordings of the variable “Food chain step/Sampling point” in the MICOBIAL datasheet.

Food chain step/Sampling point	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1. examination (after defeathering)	180	1,91	180	1,91
116 days	8	0,09	188	2
151 days	8	0,09	196	2,08
167 days	8	0,09	204	2,17
176 days	8	0,09	212	2,25

Table 13. The first five recordings of the variable “Producer ID” in the MICOBIAL datasheet.

Producer ID	Frequency	Percent	Cumulative Frequency	Cumulative Percent
,	150	2,22	150	2,22
1	288	4,26	438	6,48
2	320	4,74	758	11,22
A	76	1,12	834	12,34
AA	10	0,15	844	12,49

Table 14. The recordings of the variable “Sampling_Strategy” in the MICOBIAL datasheet.

Sampling_Strategy	Frequency	Percent	Cumulative Frequency	Cumulative Percent
40 samples per batch in a company with L. m contamination	320	4,48	320	4,48
Enumeration study	140	1,96	460	6,44
Inoculation experiment	20	0,28	480	6,72
None	1406	19,67	1886	26,39
Project	4769	66,73	6655	93,12
Systematic	43	0,6	6698	93,72
Weekly	390	5,46	7088	99,17
random in the bulk milk tank	59	0,83	7147	100

Table 15. The recordings of the variable “Sampling_Method” in the MICOBIAL datasheet.

Sampling_Method	Frequency	Percent	Cumulative Frequency	Cumulative Percent
2 vats;(top&nbottom) end of each milking	3	0,04	3	0,04
MSD1	40	0,51	43	0,55
Random	4824	61,48	4867	62,02
Tracked	1741	22,19	6608	84,21
after mixing	59	0,75	6667	84,96
end of working day samples	120	1,53	6787	86,49
morning samples	160	2,04	6947	88,53
morning/end of production day samples	40	0,51	6987	89,04
random	720	9,18	7707	98,22
systematic	140	1,78	7847	100

Table 16. The recordings of the variable “Primary/bulksample/number/code” in the MICROBIAL datasheet.

Primary/bulksample/number/code	Frequency	Percent	Cumulative Frequency	Cumulative Percent
,	608	19,02	608	19,02
02/11/10 Tarasoo C65-75 gold	5	0,16	613	19,18
02/11/10 gauge 6	5	0,16	618	19,34
07/02/11 C65-75 golden 1 ^a	5	0,16	623	19,49
07/02/11 gauge 6	5	0,16	628	19,65

Table 17. The recordings of the variable “Spiked sample: Contamination level cfu/g” in the MICROBIAL datasheet.

Spiked sample: Contamination level cfu/g	Frequency	Percent	Cumulative Frequency	Cumulative Percent
10	5	3,13	5	3,13
100000	140	87,5	145	90,63
4	4	2,5	149	93,13
5	11	6,88	160	100

Table 18. The first five recordings of the variable “Mass of primary/bulk sample (g)” in the MICROBIAL datasheet.

Mass of primary/bulk sample (g)	Frequency	Percent	Cumulative Frequency	Cumulative Percent
100	339	33,3	339	33,3
1000	140	13,75	479	47,05
1160	2	0,2	481	47,25
1210	2	0,2	483	47,45
125	69	6,78	552	54,22

Table 19. The first five recordings of the variable “Lot number” in the MICROBIAL datasheet.

Lot number	Frequency	Percent	Cumulative Frequency	Cumulative Percent
,	544	16,71	544	16,71
59186	10	0,31	554	17,01
11311131	20	0,61	574	17,63
095Y3/096AN	10	0,31	584	17,94
0F02-03	5	0,15	589	18,09

Table 20. The recordings of the variable “n” in the MICROBIAL datasheet.

n	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1	798	43,94	798	43,94
4	48	2,64	846	46,59
5	970	53,41	1816	100

Table 21. The recordings of the variable “c” in the MICROBIAL datasheet.

c	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	1168	100	1168	100

Table 22. The recordings of the variable “m” in the MICROBIAL datasheet.

m	Frequency	Percent	Cumulative Frequency	Cumulative Percent
100 cfu/g	1447	75,33	1447	75,33
Absence in 25 g	474	24,67	1921	100

Table 23. The recordings of the variable “M1” in the MICROBIAL datasheet.

M1	Frequency	Percent	Cumulative Frequency	Cumulative Percent
100 cfu/g	1387	68,19	1387	68,19
100000 cfu/g	50	2,46	1437	70,65
Absence in 25 g	597	29,35	2034	

Table 24. The recordings of the variable “Daytime” in the MICROBIAL datasheet.

Daytime	Frequency	Percent	Cumulative Frequency	Cumulative Percent
,	6391	67,97	6391	67,97
AM	1864	19,82	8255	87,79
PM	1148	12,21	9403	100

Table 25. The recordings of the variable “Hours after production” in the MICROBIAL datasheet.

Hours after production	Frequency	Percent	Cumulative Frequency	Cumulative Percent
,	100	13,19	100	13,19
1008	8	1,06	108	14,25
1032	8	1,06	116	15,3
1056	12	1,58	128	16,89
1080	12	1,58	140	18,47
11496	8	1,06	148	19,53

Table 26. The recordings of the variable “Time after cleaning/desinfection” in the MICOBIAL datasheet.

Time cleaning/desinfection	after	Frequency	Percent	Cumulative Frequency	Cumulative Percent
12 h		200	62,5	200	62,5
18 h		120	37,5	320	100

Table 27. The recordings of the variable “Transport” in the MICOBIAL datasheet.

Transport	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Isotermic bag, 30 min	200	16,57	200	16,57
Plastic bag, 30 minutes	215	17,81	415	34,38
Plastic bag, 40 min	20	1,66	435	36,04
Refrigerated	262	21,7	697	57,75
frozen	320	26,51	835	69,18
isothermal bag	60	4,97	895	74,15
normal bag	130	10,77	1025	84,92

Table 28. The recordings of the variable “T (°C)” in the MICOBIAL datasheet.

T (°C)	Frequency	Percent	Cumulative Frequency	Cumulative Percent
(RT) 20	80	10,1	80	10,1
,	200	25,25	280	35,35
10	32	4,04	312	39,39
11	2	0,25	314	39,65
12	14	1,77	328	41,41

Table 29. The recordings of the variable “T (°C) po int sale” in the MICOBIAL datasheet.

T (°C) point sale	Frequency	Percent	Cumulative Frequency	Cumulative Percent
(RT) 20-2	80	0,85	80	0,85
,	8738	92,93	8818	93,78
10,3	20	0,21	8838	93,99
10,8	10	0,11	8848	94,1
11	10	0,11	8858	94,2

Table 30. The recordings of the variable “T (°C) receipt# Lab” in the MICROBIAL datasheet.

T (°C) receipt# Lab	Frequency	Percent	Cumulative Frequency	Cumulative Percent
,	8636	91,84	8636	91,84
10	20	0,21	8656	92,06
10,1	20	0,21	8676	92,27
10,3	10	0,11	8686	92,37
10,4	10	0,11	8696	92,48

Table 31. The recordings of the variable “T (°C) time analysis” in the MICROBIAL datasheet.

T (°C) time analysis	Frequency	Percent	Cumulative Frequency	Cumulative Percent
,	8616	91,63	8616	91,63
10	20	0,21	8636	91,84
10,1	10	0,11	8646	91,95
10,3	5	0,05	8651	92
10,4	5	0,05	8656	92,06
10,5	10	0,11	8666	92,16

Table 32. The recordings of the variable “pH” in the MICROBIAL datasheet.

pH	Frequency	Percent	Cumulative Frequency	Cumulative Percent
6,3	320	100	320	100

Table 33. The recordings of the variable “aw” in the MICROBIAL datasheet.

aw	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0,98	320	100	320	100

Table 34. The recordings of the variable “Gas_concentration” in the MICROBIAL datasheet.

Gas_concentration	Frequency	Percent	Cumulative Frequency	Cumulative Percent
MAP	228	9,67	228	9,67
bulk	550	23,32	778	32,99
no package	60	2,54	838	35,54
vacuum	1520	64,46	2358	100

Table 35. The recordings of the variable “Preservatives” in the MICROBIAL datasheet.

Preservatives	Frequency	Percent	Cumulative Frequency	Cumulative Percent
none	360	100	360	100

Table 36. The recordings of the variable “Desinfectants” in the MICROBIAL datasheet.

Desinfectants	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Frequency Missing = 9403				

Table 37. The first five recordings of the variable “Date of analysis” in the MICROBIAL datasheet.

Date of analysis	Frequency	Percent	Cumulative Frequency	Cumulative Percent
30.jan.03	1	0,09	1	0,09
05.feb.03	1	0,09	2	0,17
06.feb.03	3	0,26	5	0,43
22.feb.03	1	0,09	6	0,51

Table 38. The first five recordings of the variable “Date of analysis” in the MICROBIAL datasheet.

Expiry date	Frequency	Percent	Cumulative Frequency	Cumulative Percent
27.jan.03	1	0,15	1	0,15
22.feb.03	2	0,3	3	0,45
24.feb.03	1	0,15	4	0,6
26.feb.03	1	0,15	5	0,75
13OCT2003	1	0,15	6	0,9

Table 39. The first five recordings of the variable “Sample_size” in the MICROBIAL datasheet.

Sample_size	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1	443	9,85	443	9,85
100	804	17,88	1247	27,73
1000	59	1,31	1306	29,04
20	193	4,29	1499	33,33
200	80	1,78	1579	35,11

Table 40. The recordings of the variable “Sample_unit” in the MICROBIAL datasheet.

Sample_unit	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Bag	100,00	1,83	100,00	1,83
Head	290,00	5,31	390,00	7,14
cm2	1 171,00	21,44	1 561,00	28,57
eggshell of a	140,00	2,56	1 701,00	31,14
g	3 269,00	59,84	4 970,00	90,98
ml	233,00	4,27	5 203,00	95,24
piece	260,00	4,76	5 463,00	100,00

Table 41. The first five recordings of the variable “Replicate_sample_number” in the MICROBIAL datasheet.

Replicate_sample_number	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1,00	1 046,00	40,26	1 046,00	0,26
40 909,00	30,00	1,15	1 076,00	41,42
40 940,00	30,00	1,15	1 106,00	42,57

Table 42. The first five recordings of the variable “Mass of subsample” in the MICROBIAL datasheet.

Mass of subsample	Frequency	Percent	Cumulative Frequency	Cumulative Percent
20	192	3,7	192	3,7
25	4628	89,17	4820	92,87
400	370	7,13	5190	100

Table 43. The recordings of the variable “Analytical_Method” in the MICROBIAL datasheet.

Analytical_Method	Frequency	Percent	Cumulative Frequency	Cumulative Percent
ISO 11290 1 and	320	3,4	320	3,4
ISO 11290-1	672	7,15	992	10,55
ISO 11290-1/A1	195	2,07	1187	12,62
ISO 11290-2	692	7,36	1879	19,99
ISO 4833	50	0,53	1929	20,52
ISO 6579	792	8,42	2721	28,94
ISO-10272-2:2002	720	7,66	3441	36,6
ISO10272-1	304	3,23	3745	39,83
ISO11290-1 & 2	1446	15,38	5191	55,21
See info	3682	39,16	8873	94,37
VTEC O157: ISO 1	182	1,94	9055	96,31
baseline method	207	2,2	9262	98,51
surface plate co	140	1,49	9402	100

Table 44. The recordings of the variable “Analytical unit” in the MICROBIAL datasheet.

Analytical unit	Frequency	Percent	Cumulative Frequency	Cumulative Frequency
MPN log/g	1220	14,47	1220	14,47
MPN/cm2	380	4,51	1600	18,98
MPN/g	563	6,68	2163	25,66
cfu/cm2	1599	18,97	3762	44,62
cfu/g	3859	45,77	7621	90,39
ge	90	1,07	7711	91,46
log cfu/g	720	8,54	8431	100

Table 45. The recordings of the variable “Agar” in the MICROBIAL datasheet.

Agar	Frequency	Percent	Cumulative Frequency	Cumulative Percent
ALOA	320	26,17	320	26,17
CT-SMAC/RMAC and	183	14,96	503	41,13
Karm	360	29,44	863	70,56
mCCD	360	29,44	1223	100

Table 46. The recordings of the variable “Qualitative results” in the MICROBIAL datasheet.

Qualitative results	Frequency	Percent	Cumulative Frequency	Cumulative Percent
.	1534	16,31	1534	16,31
Negative	6257	66,54	7791	82,86
Positive	1612	17,14	9403	100

Table 47. The recordings of the variable “Results (PCR of colony)” in the MICROBIAL datasheet.

Results (PCR of colony)	Frequency	Percent	Cumulative Frequency	Cumulative Percent
neg	528	55	528	55
pos	432	45	960	100

Table 48. The first five recordings of the variable “Quantitative result” in the MICROBIAL datasheet.

Quantitative result	Frequency	Percent	Cumulative Frequency	Cumulative Percent
-0,3	7	0,07	7	0,07
-0,44	4	0,04	11	0,12
-0,52	20	0,21	31	0,33
,	6118	65,29	6149	65,62
0	2025	21,61	8174	87,23

Table 49. The first five recordings of the variable “Detectionlimit” in the MICROBIAL datasheet.

Detectionlimit	Frequency	Percent	Cumulative Frequency	Cumulative Percent
-0,3	91	2,3	91	2,3
0,0075	25	0,63	116	2,94
0,04	5	0,13	121	3,06
0,3	5	0,13	126	3,19
10	831	21,03	957	24,22

Table 50. The recordings of the variable “Species ID” in the MICOBIAL datasheet.

Species_ID	Frequency	Percent	Cumulative Frequency	Cumulative Percent
,	126	8,22	126	8,22
Camp. coli	194	12,65	320	20,87
Camp. jejuni	436	28,44	756	49,32
Camp. ssp	4	0,26	760	49,58
E.coli O157 Vt-	1	0,07	761	49,64
E.coli O157 Vt-, eae+	1	0,07	762	49,71
E.coli O26 Vt-, eae+	2	0,13	764	49,84
Escherichia coli O157 VT- eae-	1	0,07	765	49,9
Escherichia coli O157 VT1+ VT2+ eae+	1	0,07	766	49,97
Escherichia coli O157 Vt-, eae+	1	0,07	767	50,03
Escherichia coli O26 Vt-, eae+	1	0,07	768	50,1
Escherichia coli VT1+ VT2+ eae+	1	0,07	769	50,16
Escherichia coli VT1+ eae+	1	0,07	770	50,23
Escherichia coli VT2+	1	0,07	771	50,29
L. innocua	2	0,13	773	50,42
L. monocytogenes	592	38,62	1365	89,04
Norovirus group I	1	0,07	1366	89,11
Norovirus group II	2	0,13	1368	89,24
VTEC O26 (Vt1+, Vt2+, eae+)	1	0,07	1369	89,3
coli/jejuni	55	3,59	1424	92,89
coli/lari	2	0,13	1426	93,02
jejuni	84	5,48	1510	98,5
jejuni/lari	2	0,13	1512	98,63
lari	11	0,72	1523	99,35
unknown	10	0,65	1533	100

Table 51. The first five recordings of the variable “Flowchartpoint” in the MICROBIAL datasheet.

Flowchartpoint	Frequency	Percent	Cumulative Frequency e	Cumulative Percent
1	360	14,12	360	14,12
2	780	30,59	1140	44,71
3	460	18,04	1600	62,75
4	490	19,22	2090	81,96
A	320	12,55	2410	94,51
A1	5	0,2	2415	94,71

Table 52. The first five recordings of the variable “Dataset” in the MICROBIAL datasheet.

Dataset	Frequency	Percent	Cumulative Frequency	Cumulative Percent
B1	1440	15,31	1440	15,31
B10	470	5	1910	20,31
B11	525	5,58	2435	25,9
B12	500	5,32	2935	31,21

Table 53. The first five recordings of the variable “Remarks” in the MICROBIAL datasheet.

Remarks	Frequency	Percent	Cumulative Frequency	Cumulative Percent
O157 RT-PCR positive	2	0,76	2	0,76
O26 RT-PCR positive	11	4,18	13	4,94
Real Time PCR VT1 positive	2	0,76	15	5,7
Real Time PCR VT1&2 positive	2	0,76	17	6,46
Real Time PCR VT2 positive	4	1,52	21	7,98

Content of the variables in the datasheet (CHEMICAL) by MONTH 30

At Month 30, the content of each of the variables have been tried to be harmonized as much as possible without losing the information of the data. Mainly such transformations have been performed to have a similar spelling of the same content and to have the same format regardless of which format that were used for the recordings.

The following tables (54-88) describe the content at MONTH 30. For the unique variables and other variables where the number of variables are to long for this report, f.eks ;Date of sampling; ID etc., only the five first recordings are given. The IDs have been given anonymously

Table 54. The recordings of the variable "Laboratory" in the CHEMICAL datasheet.

Laboratory	Frequency	Percent	Cumulative Frequency	Cumulative Percent
CNTA	14883	81,4	14883	81,4
UNIBO	3401	18,6	18284	100

Table 55. The recordings of the variable "Description of the product" in the CHEMICAL datasheet.

Description of the product	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Bulk paseturized milk AQ*	2	0,01	2	0,01
Bulk paseturized milk organi	1	0,01	3	0,02
Bulk raw milk High Quality	16	0,09	19	0,1
Bulk raw milk organic	7	0,04	26	0,14
Cabbage	4318	23,62	4344	23,76
Lettuce (Icerberg)	5248	28,7	9592	52,46
Pasteurized milk in bottle	59	0,32	9651	52,78
Pistachio, in shell, raw	16	0,09	9667	52,87
Pistachio, in shell, roasted	53	0,29	9720	53,16
RTE-Lettuce Salad	5248	28,7	14968	81,86
bulk raw milk	3316	18,14	18284	100

Table 56. The first five recordings of the variable “Sampling point” in the CHEMICAL datasheet.

Sampling point	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Brand 1	1	0,01	1	0,01
Brand 2	1	0,01	2	0,01
Brand 3	1	0,01	3	0,02
Brand 4	1	0,01	4	0,03
Brand 5	1	0,01	5	0,03
Processing industry	10496	70,68	10501	70,71
Processing industry	32	0,22	10533	70,92
Retail	4318	29,08	14851	100

Table 57. The recordings of the variable “Date of sampling” in the CHEMICAL datasheet.

Date of sampling	Frequency	Percent	Cumulative Frequency	Cumulative Percent
03JAN10:00:00:00	46	0,25	46	0,25
04JAN10:00:00:00	38	0,21	84	0,46
05JAN10:00:00:00	2	0,01	86	0,47

Table 58. The recordings of the variable “Lot number” in the CHEMICAL datasheet.

Lot number	Frequency	Percent	Cumulative Frequency	Cumulative Percent
2,506E+11	2794	18,81	2794	18,81
4604	1524	10,26	4318	29,08
Lot 1	1321	8,9	5639	37,97
Lot 2	1316	8,86	6955	46,83
Lot 3	1316	8,86	8271	55,69
Lot 4	1316	8,86	9587	64,55
Lot 5	1316	8,86	10903	73,42
Lot 6	1316	8,86	12219	82,28
Lot 7	1316	8,86	13535	91,14
Lot 8	1316	8,86	14851	100

Table 59. The recordings of the variable “Sampling strategy” in the CHEMICAL datasheet.

Sampling strategy	Frequency	Percent	Cumulative Frequency	Cumulative Percent
random	14851	100	14851	100

Table 60. The recordings of the variable "Sampling method" in the CHEMICAL datasheet.

Sampling method	Frequency	Percent	Cumulative Frequency	Cumulative Percent
random	14851	100	14851	100

Table 61. The recordings of the variable "No of primary samples" in the CHEMICAL datasheet.

No of primary samples	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1	4318	29,08	4318	29,08
102	4	0,03	4322	29,1
103	4	0,03	4326	29,13
106	4	0,03	4330	29,16
132	4	0,03	4334	29,18
136	4	0,03	4338	29,21
5	10496	70,68	14834	99,89
89	4	0,03	14838	99,91
97	8	0,05	14846	99,97
unknown	5	0,03	14851	100

Table 62. The first five recordings of the variable "Replicate sample code" in the CHEMICAL datasheet.

Replicate sample code	Frequency	Percent	Cumulative Frequency	Cumulative Percent
jan.04	127	0,7	127	0,7
1/CC05111411	127	0,7	254	1,39
1/CC11112011	127	0,7	381	2,09
1/L250599250442	127	0,7	508	2,78
1/bulk	508	2,78	1016	5,57
feb.04	127	0,7	1143	6,26

Table 63 The first five recordings of the variable "Mass of bulk sample,kg" in the CHEMICAL datasheet.

Mass of bulk sample, kg	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0,12	2	0,01	2	0,01
0,122	8	0,04	10	0,05
0,127	8	0,04	18	0,1
0,134	4	0,02	22	0,12
0,136	4	0,02	26	0,14

Table 64. The recordings of the variable “Mass of sub-sample, kg” in the CHEMICAL datasheet.

Mass of sub-sample, kg	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0,12	2	0,06	2	0,06
0,122	8	0,23	10	0,29
0,127	8	0,23	18	0,52
0,134	4	0,12	22	0,63
0,136	4	0,12	26	0,75
0,14	1	0,03	27	0,78
0,162	4	0,12	31	0,89
0,176	4	0,12	35	1,01
0,2	2	0,06	37	1,07
1	3401	98,01	3438	99,08
10	32	0,92	3470	100

Table 65. The recordings of the variable “Method of sample size reduction” in the CHEMICAL datasheet.

Method of sample size reduction	Frequency	Percent	Cumulative Frequency	Cumulative Percent
MSD1	3342	97,35	3342	97,35
Mixing	32	0,93	3374	98,28
na	59	1,72	3433	100

Table 66. The recordings of the variable “Sub-sample B code” in the CHEMICAL datasheet.

Sub-sample B code	Frequency	Percent	Cumulative Frequency	Cumulative Percent
L.8/CS1/SS1/F1	2	6,25	2	6,25
L.8/CS1/SS1/F6	2	6,25	4	12,5
L.8/CS1/SS2/F1	2	6,25	6	18,75
L.8/CS1/SS2/F6	2	6,25	8	25
L.8/CS2/SS1/F1	2	6,25	10	31,25
L.8/CS2/SS1/F6	2	6,25	12	37,5

Table 67. The recordings of the variable “Mass of subsample B, kg” in the CHEMICAL datasheet.

Mass of subsample B, kg	Frequency	Percent	Cumulative Frequency	Cumulative Percent
5	32	100	32	100

Table 68. The first five recordings of the variable “Test portion i#d” in the CHEMICAL datasheet.

Test portion i#d	Frequency	Percent	Cumulative Frequency	Cumulative Percent
L.8/CS1/SS1/F1	2	6,25	2	6,25
L.8/CS1/SS1/F6	2	6,25	4	12,5
L.8/CS1/SS2/F1	2	6,25	6	18,75
L.8/CS1/SS2/F6	2	6,25	8	25

Table 69. The recordings of the variable “Analytical method” in the CHEMICAL datasheet.

Analytical method	Frequency	Percent	Cumulative Frequency	Cumulative Percent
ELISA	3401	18,62	3401	18,62
HPLC-MS/MS	53	0,29	3454	18,91
Quechers-GC-MS/MS	14814	81,09	18268	100

Table 70. The first five recordings of the variable “Date of analysis” in the CHEMICAL datasheet.

Date of analysis	Frequency	Percent	Cumulative Frequency	Cumulative Percent
03JAN10:00:00:00	46	1,34	46	1,34
04JAN10:00:00:00	38	1,11	84	2,45
05JAN10:00:00:00	2	0,06	86	2,51
11JAN10:00:00:00	40	1,17	126	3,67
12JAN10:00:00:00	18	0,52	144	4,19

Table 71. The recordings of the variable “Mass of test portion, g” in the CHEMICAL datasheet.

Mass of test portion, g	Frequency	Percent	Cumulative Frequency	Cumulative Percent
10	14814	81,09	14814	81,09
100 µL	3401	18,62	18215	99,71
3	53	0,29	18268	100

Table 72. The first five recordings of the variable “Name of chemical analysed” in the CHEMICAL datasheet.

Name of chemical analysed	Frequency	Percent	Cumulative Frequency	Cumulative Percent
2,4'-DDT-4,4'-DDD	64	0,43	64	0,43
2,4-DDD	64	0,43	128	0,86
2,4-DDE	64	0,43	192	1,29
4,4-DDE	64	0,43	256	1,72
4,4-DDT	64	0,43	320	2,15

Table 73. The first five recordings of the variable “Result code” in the CHEMICAL datasheet.

Result code	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1	98	0,66	98	0,66
10	98	0,66	196	1,32
100	98	0,66	294	1,98
1008573	1	0,01	295	1,98
1008574	1	0,01	296	1,99

Table 74 The recordings of the variable “Resultunit” in the CHEMICAL datasheet.

Result unit	Frequency	Percent	Cumulative Frequency	Cumulative Percent
mg/kg	14814	99,75	14814	99,75
µg/kg	37	0,25	14851	100

Table 75 The first five recordings of the variable “Reported conc#” in the CHEMICAL datasheet.

Reported conc#	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0,011	4	0,03	4	0,03
0,012	3	0,02	7	0,05
0,013	3	0,02	10	0,07
0,014	1	0,01	11	0,07
0,015	5	0,03	16	0,11

Table 76. The recordings of the variable “LOD” in the CHEMICAL datasheet.

LOD	Frequency	Percent	Cumulative Frequency	Cumulative Percent
Frequency Missing = 18 284				

Table 77. The recordings of the variable “LOQ” in the CHEMICAL datasheet.

LOQ	Frequency	Percent	Cumulative Frequency	Cumulative Percent
0	14814	99,75	14814	99,75
50	37	0,25	14851	100

Table 78. The recordings of the variable Analytical result , µg/kg in the CHEMICAL datasheet.

Analytical result , µg/kg	Frequency	Percent	Cumulative Frequency	Cumulative Percent
<50	16	50	16	50
not analyzed	16	50	32	100

Table 79. The first four recordings of the variable “Recovery %” in the CHEMICAL datasheet.

Recovery %	Frequency	Percent	Cumulative Frequency	Cumulative Percent
100	1240	6,79	1240	6,79
101	784	4,3	2024	11,09
102	814	4,46	2838	15,55
103	784	4,3	3622	19,84

Table 80. The recordings of the variable “Result corrected for recovery” in the CHEMICAL datasheet.

Result corrected for recovery	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1	10	0,29	10	0,29
10	240	7,02	250	7,32
11	200	5,85	450	13,17
12	184	5,38	634	18

Table 81. The recordings of the variable “Relative uncertainty of analysis” in the CHEMICAL datasheet.

Relative uncertainty of analysis	Frequency	Percent	Cumulative Frequency	Cumulative Percent
16	64	0,43	64	0,43
21	98	0,66	162	1,09
23	98	0,66	260	1,75
24	294	1,98	554	3,73

Table 82. The recordings of the variable “Transport” in the CHEMICAL datasheet.

Transport	Frequency	Percent	Cumulative Frequency	Cumulative Percent
packaged milk	59	69,41	59	69,41
storage tank	3	3,53	62	72,94
transport tankers	23	27,06	85	100

Table 83. The recordings of the variable “Sub-sample A code” in the CHEMICAL datasheet.

Sub-sample A code	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1029895	127	0,85	127	0,85
1029896	127	0,85	254	1,7
1029897	127	0,85	381	2,56
1029898	127	0,85	508	3,41

Table 84. The recordings of the variable "DATASET" in the CHEMICAL datasheet.

DATASET	Frequency	Percent	Cumulative Frequency	Cumulative Percent
B30	3316	25,44	3316	25,44
B31	85	0,65	3401	26,09
B32	4318	33,12	7719	59,21
B33	5248	40,26	12967	99,47
B35	32	0,25	12999	99,72
B36	32	0,25	13031	99,96
B37	5	0,04	13036	100

Table 85. The recordings of the variable "Mass of sub-sample,kg" in the CHEMICAL datasheet.

Mass of sub-sample,kg	Frequency	Percent	Cumulative Frequency	Cumulative Percent
na	64	100	64	100

Table 86. The recordings of the variable "Flow chart Id" in the CHEMICAL datasheet.

Flow chart Id	Frequency	Percent	Cumulative Frequency	Cumulative Percent
A	8	15,09	8	15,09
B	40	75,47	48	90,57
C	5	9,43	53	100

Table 87. The recordings of the variable "Replicate lab# sample code" in the CHEMICAL datasheet.

Replicate lab# sample code	Frequency	Percent	Cumulative Frequency	Cumulative Percent
10085	4	10,81	4	10,81
10253	1	2,7	5	13,51
L2126	4	10,81	9	24,32
L2127	4	10,81	13	35,14

Table 88. The recordings of the variable "Sub-sample code" in the CHEMICAL datasheet.

Sub-sample code	Frequency	Percent	Cumulative Frequency	Cumulative Percent
1008573	1	2,7	1	2,7
1008574	1	2,7	2	5,41
1008575	1	2,7	3	8,11
1008576	1	2,7	4	10,81
1025319	1	2,7	5	13,51

ANNEXES

Deliverable 7.1 database