

ASTM Export & ASTM Middleware Documentation

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1 About Raptor

Raptor analysis software is an application provided by Macro Array Diagnostics (MADx) to read and analyze measurements from MADx ALEX cartridges provided by a MADx ImageXplorer analyzer. Raptor stores these measurements, provides PDF reports and allows the export of measurements in various data formats.

2 ASTM Interoperability

Raptor supports the export of its measurements in the ASTM format. Therefore Raptor implements the E 1394-97 standard "Standard Specification for Transferring Information Between Clinical Instruments and Computer Systems" by ASTM International.

This standard specifies the ASTM data structure, but not the communication protocol itself. To ensure interoperability with a wide range of computer systems (LIS), the communication with LIS is not directly integrated into the Raptor software, but provided by an additional tool, called the ASTM middleware.

3 ASTM Middleware

The Raptor ASTM Middleware is a small standalone EXE application (to be run on-demand or as a Windows Service) that provides networked access to the Raptor measurements in ASTM data format. The system requirements for this

application are the same as for Raptor itself (primarily .NET Framework 4.7.2 or higher).

As of now, the middleware supports networked access via TCP and HTTP connections.

3.1 Workflow

The ASTM middleware provides access to all ASTM data that has been previously exported by Raptor:

1. User uses Raptor to analyze ALEX cartridges and store measurements.
2. User exports specific (selected) measurements to ASTM format. These measurements are stored in standardized ASTM format in *.astm files in Raptors export directory.
3. The ASTM middleware listens for incoming requests. If a new request is received, it is processed, all ASTM files in Raptors export directory are checked and - according to the request - returned in a single aggregated ASTM document.

Please note

- Only measurements that have been exported by the user are available for the ASTM middleware.
- The ASTM middleware allows for filtering by date, so that the calling LIS can specify "only measurements since date/time X".
- As of now, the ASTM middleware does not support additional ASTM functionality like querying or "Request information record", but provides only Raptor measurements in ASTM format. Additional parts of the ASTM specification may be added in the future, if required.

3.2 ASTM Middleware usage

Use the `-help` parameter to see all available parameters. Using command line parameters, settings like ports or the location of Raptors export directory can be specified.

3.2.1 Raptor data directory

By default, all data and user files (not the program files itself) of Raptor are stored in `c:\Raptor`. The ASTM Middleware, by default, also assumes this path. If Raptors user data is stored on a different path, there's a command line parameter for the ASTM middleware to specify the different path.

3.2.2 ASTM middleware logging

By default, there is a lot of useful logging when executing ASTM middleware via the standard output (eg. in the command window). All this logging information is also stored into the logging directory, which lives at `c:\Raptor\Logs` by default, but this can be changed by command line parameter. Please note that the ASTM Middleware creates the `Logs` directory as "hidden", if it doesn't exist yet.

3.2.3 Connect via TCP

The ASTM middleware listens on a specific port (Default: `44556`) for incoming TCP connections. It expects and responds with UTF-8 encoded strings.

1. LIS connects and sends any command text. If this text can be parsed as an ISO 8601 date (eg. `2018-03-07T10:02:30Z`) the ASTM middleware will only return the measurements with a testing date greater or equal this specified date.
2. The ASTM middleware responds with a ASTM conform document (as string) that contains all available measurements (ASTM patients, orders, test results - see examples).

- If no measurements are available, the ASTM middleware responds with a valid, but empty ASTM document (see examples).

3.2.3.1 Supported commands

If the command (= the string sent after connection has been established) happens to be a valid ISO 8601 date, the ASTM middleware will only return the measurements with a testing date greater or equal this specified date.

If the command equals `new`, then all measurements since the last `new` request will be returned. The ASTM middleware stores the date/time of the last call in a text file in the program directory.

3.2.4 Connect via HTTP

The ASTM middleware listens on a specific port (Default: `48080`) for incoming HTTP connections. It expects and responds with UTF-8 encoded strings.

- LIS calls the ASTM middleware by sending an HTTP request, for example by calling `http://the_raptor_computer/astm`.
- The ASTM middleware responds with a ASTM conform document (as string) that contains all available measurements (ASTM patients, orders, test results - see examples).
- If no measurements are available, the ASTM middleware responds with a valid, but empty ASTM document (see examples).

3.2.4.1 Supported parameters

- since** : If this querystring parameter is provided as a valid ISO 8601 date, the ASTM middleware will only return the measurements with a testing date greater or equal this specified date. For example: `http://the_raptor_computer/astm?since=2018-03-07T10:02:30Z` will return all measurements with a testing date after March 7th 2018 10:02 AM (UTC time zone).

If the `since` parameter contains the text `new` instead of a valid date, then all measurements since the last `new` request will be returned. The ASTM middleware stores the date/time of the last call in a text file in the program directory.

- filter** : If this querystring parameter is provided, the ASTM middleware will only return measurements with a order specimen ID that contains this filter. The order specimen ID contains the ALEX barcode for ASTM exports from Raptor. The filter comparison is not case sensitive and also works on partial text fragments. For example: `http://the_raptor_computer/astm?filter=AAK12629` will return all measurements with this ALEX barcode.

Please note that if more than one parameter is specified at once, all parameters are taken into account and are being used to filter the query. For example, if `since` and `filter` both are specified, then only the measurements with a matching date AND a matching filter are returned.

3.2.4.2 Windows support

Please note that some Windows versions do not allow listening for HTTP requests by default. In this case, the HTTP connection attempt will fail. Use the following command to configure Windows to allow HTTP:

```
netsh http add urlacl url=http://*:48080/ user=the_username
```

4 Addendum 1: Examples

4.1 ASTM Header Record

```
H|\^&|||RAPTOR Analysis Software^1.2.0.0|||||P|1394-97|20180307112053+0100
```

Variable components

- Raptor software version (never empty) (Position: 5)
- Date of export (never empty) (Position: 14)

4.2 ASTM Patient Record

```
P|1|Patient_Code|||Patient Name||19830625|U||^|19830625|
```

Variable components

- Patient code (may be empty) (Position: 3)
- Patient name (may be empty) (Position: 6)
- Patient date of birth (may be empty) (Position: 8)

4.3 ASTM Order Record

Without sample code:

```
0|1|01ABB99208022018EST0030;01200;0120;03000;0360;07500;1100;22000;3300;40000;11656;11802;1000EST|1||R|||||N|||20180220143028+0100||^0|||||||20180220143031+0100|||F|||||
```

Including sample code:

```
0|1|01ABB99208022018EST0030;01200;0120;03000;0360;07500;1100;22000;3300;40000;11656;11802;1000EST|1^Our Sample Code||R|||||N|||20180220143028+0100||^0|||||||20180220143031+0100|||F|||||
```

Variable components

- Raptor ALEX code (never empty) (Position: 3)
- Raptor measurement ID and optionally sample code (may be empty) (Position: 4)
 - This consists either of only the unique Raptor measurement ID. This is the default behavior when the sample code of the measurement is empty.
For example: 34 .
 - Or it consists of the unique Raptor measurement ID followed by the custom sample code, separated by a ^ . This is the behavior when the sample code of the measurement is not empty. Please note that the sample ID is considered unrestricted user input in Raptor and can be any alphanumeric string.
For example: 34^ABC 123 XYZ 456 .
- Date of sampling (may be empty) (Position: 8)
- Date of testing (never empty) (Position: 15)
- Date of approval (may be empty) (Position: 25)

4.4 ASTM Test Result Record

```
R|1|^t19^Aca m|0|kUA/1|||F||MACROARRAYDX\gunacker|20180220143028+0100||
```

Variable components

- Allergen code and name (never empty) (Position: 3)

- Measurement value (Position: 4)
- User/operator (never empty) (Position: 11)
- Date of testing (never empty) (Position: 12)

4.5 Empty ASTM document

```
H|\^&|||RAPTOR Analysis Software^0.0.0.0|||||P|1394-97|20180307111901+0100
L|1|N
```

4.6 Full ASTM document with the measurements of two patients

```
H|\^&|||RAPTOR Analysis Software^1.2.0.0|||||P|1394-97|20180307112053+0100
P|1|Patient_Code|||Patient Name||19830625|U|^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
O|1|01ABB99208022018EST0030;01200;0120;03000;0360;07500;1100;22000;3300;40000;11656;11802;1000EST|1||R|1|||N||20180
220143028+0100||^0|||||20180220143031+0100||F|||
R|1|^^t19^Aca m|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|2|^^d70^Aca s|0.24|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|3|^^f500^Act d|1|0.1|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|4|^^f501^Act d|2|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|5|^^f502^Act d|5|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|6|^^f503^Act d|10|0.34|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|7|^^f84^Act d|0.11|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|8|^^f212^Aga b|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|9|^^f48^A11 c|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|10|^^f47^A11 s|0.48|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|11|^^t100^Aln g|1|2.51|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|12|^^t101^Aln g|4|9.52|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|13|^^t2^Aln g|3.54|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|14|^^m229^Alt a|1|21.04|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|15|^^m6^Alt a|11.31|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|16|^^w14^Ama r|0.32|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|17|^^w230^Amb a|1|4.83|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|18|^^w300^Amb a|4|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|19|^^w1^Amb a|1.81|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|20|^^f443^Ana o|3|0.02|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|21|^^f202^Ana o|3.44|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|22|^^k202^Ana c|2|0.02|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|23|^^p10^Ani s|1|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|24|^^p11^Ani s|3|0.74|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|25|^^i208^Api m|1|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|26|^^i214^Api m|2|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|27|^^i217^Api m|10|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|28|^^i1^Api m|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|29|^^f417^Api g|1|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|30|^^f504^Api g|2|1.04|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|31|^^f505^Api g|6|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|32|^^f85^Api g|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|33|^^f422^Ara h|1|0.22|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|34|^^f423^Ara h|2|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|35|^^f424^Ara h|3|0.04|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|36|^^f447^Ara h|6|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|37|^^f352^Ara h|8|2.02|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|38|^^f427^Ara h|9|0.68|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|39|^^f13^Ara h|1.39|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|40|^^w231^Art v|1|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|41|^^w233^Art v|3|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|42|^^w6^Art v|0.15|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|43|^^m220^Asp f|3|1.14|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|44|^^m221^Asp f|4|0.09|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|45|^^m222^Asp f|6|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|46|^^m3^Asp f|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|47|^^f7^Ave s|0.5|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|48|^^f354^Ber e|1|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|49|^^f18^Ber e|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
```

R|50|^t215^Bet v 1|2.7|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|51|^t216^Bet v 2|0.07|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|52|^t225^Bet v 6|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|53|^t3^Bet v|2.27|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|54|^i100^Bla g 1|10.71|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|55|^i101^Bla g 2|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|56|^i102^Bla g 4|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|57|^i103^Bla g 5|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|58|^i6^Bla g|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|59|^d201^Blo t|0.43|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|60|^f76^Bos d 4|0.21|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|61|^f77^Bos d 5|0.71|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|62|^e204^Bos d 6|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|63|^f78^Bos d 8|5.69|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|64|^e100^Bos d 2|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|65|^f2^Bos d_milk|3.68|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|66|^f27^Bos d_meat|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|67|^e4^Bos d_epithelia|0.03|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|68|^f519^Sin a 1|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|69|^f89^Sin|0.12|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|70|^f216^Bra o|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|71|^f506^Cam d|0.14|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|72|^m5^Can a|0.21|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|73|^e101^Can f 1|4.9|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|74|^e102^Can f 2|4.9|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|75|^e221^Can f 3|9.91|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|76|^e5^Can f|7.91|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|77|^f300^Cap h_milk|1.26|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|78|^e80^Cap h_epithelia|0.93|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|79|^f218^Cap a|0.64|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|80|^f293^Car p|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|81|^f265^Car c|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|82|^f201^Car i|0.04|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|83|^e6^Cav p|3.26|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|84|^w100^Che a 1|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|85|^w10^Che a|0.13|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|86|^f347^Che q|0.07|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|87|^f23^Chi spp.|1.84|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|88|^f309^Cic a|0.1|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|89|^f33^Cit s|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|90|^m100^Cla h 8|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|91|^m2^Cla h|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|92|^f440^Cor a 9|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|93|^t102^Cor a 1.0103|0.26|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|94|^f428^Cor a 1.0401|0.69|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|95|^f425^Cor a 8|0.02|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|96|^f506^Cor a 11|0.14|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|97|^f439^Cor a 14|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|98|^t4^Cor a_pollen|0.66|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|99|^f17^Cor a_hazel|0.06|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|100|^e84^Cri c|0.35|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|101|^t17^Cry j|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|102|^f87^Cuc m|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|103|^f226^Cuc p|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|104|^t226^Cup a 1|0.54|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|105|^t222^Cup s|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|106|^g2^Cyn d|0.68|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|107|^f355^Cyp c 1|1.33|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|108|^f507^Dau c 1|0.01|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|109|^f31^Dau c|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|110|^d100^Der f 1|3.21|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|111|^d101^Der f 2|1.29|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|112|^d2^Der f|1.81|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|113|^d104^Der p 7|0.31|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|114|^d103^Der p 5|1.41|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|115|^d202^Der p 1|4.03|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|116|^d203^Der p 2|5.21|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|117|^d205^Der p 10|1.64|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|118|^d102^Der p 11|0.21|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|119|^d209^Der p 23|1.4|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|120|^d1^Der p|3.99|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|121|^i25^DoI spp|0|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|122|^e227^Equ c 1|3.38|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||
R|123|^f286^Equ c_milk|0.02|kUA/1|||F|^MACROARRAYDX\gunacker|20180220143028+0100||

R|124|^^^f321^Equ c_meat|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|125|^^^e3^Equ c_epithelia|0.83|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|126|^^^f508^Fag e 2|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|127|^^^f11^Fag e|0.06|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|128|^^^t5^Fag s|0.72|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|129|^^^e94^Fel d 1|10.7|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|130|^^^e220^Fel d 2|5.78|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|131|^^^e228^Fel d 4|1.94|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|132|^^^e1^Fel d|6.06|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|133|^^^k81^Fic b|0.14|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|134|^^^f328^Fic c|0.05|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|135|^^^f44^Fra a|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|136|^^^t103^Fra e 1|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|137|^^^t25^Fra e|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|138|^^^f509^Gad m 1|0.38|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|139|^^^f3^Gad m|0.9|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|140|^^^f233^Gal d 1|0.08|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|141|^^^f232^Gal d 2|0.35|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|142|^^^f323^Gal d 3|0.35|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|143|^^^k208^Gal d 4|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|144|^^^f510^Gal d 5|1.09|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|145|^^^f1^Gal d_white|0.69|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|146|^^^f75^Gal d_yolk|0.39|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|147|^^^f83^Gal d_meat|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|148|^^^f353^Gly m 4|0.01|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|149|^^^f431^Gly m 5|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|150|^^^f432^Gly m 6|0.05|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|151|^^^f511^Gly m 8|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|152|^^^f14^Gly m|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|153|^^^d105^Gly d 2|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|154|^^^d73^Gly d|0.02|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|155|^^^k84^Hel a|0.25|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|156|^^^k215^Hev b 1|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|157|^^^k217^Hev b 3|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|158|^^^k218^Hev b 5|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|159|^^^k220^Hev b 6.02|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|160|^^^k221^Hev b 8|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|161|^^^k224^Hev b 11|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|162|^^^k82^Hev b|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|163|^^^f80^Hom g 2|5.53|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|164|^^^o214^Hom s LF|0.08|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|165|^^^f6^Hor v|0.17|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|166|^^^f324^Hum l|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|167|^^^f441^Jug r 1|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|168|^^^f512^Jug r 2|0.25|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|169|^^^t10^Jug r_pollen|0.68|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|170|^^^f256^Jug r_nut|0.02|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|171|^^^t63^Jun a|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|172|^^^f215^Lac s|0.01|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|173|^^^f235^Lep c|0.04|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|174|^^^d71^Len d|0.05|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|175|^^^t210^Lig v|0.18|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|176|^^^f348^Lit c|0.06|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|177|^^^f24^Lit s|0.66|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|178|^^^f258^Loi|0.24|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|179|^^^g100^Loi p 1|8.52|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|180|^^^f335^Lup a|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|181|^^^f513^Mac i 2S Albumin|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|182|^^^f345^Mac inte|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|183|^^^y3^MaLa s 6|0.84|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|184|^^^y1^MaLa s 1|0.19|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|185|^^^y2^MaLa s 5|5.14|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|186|^^^y4^MaLa s 9|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|187|^^^y5^MaLa s 11|0.3|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|188|^^^f434^Mal d 1|2.97|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|189|^^^f514^Mal d 2|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|190|^^^f435^Mal d 3|0.71|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|191|^^^f49^Mal d|1.24|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|192|^^^f91^Man i|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|193|^^^f284^Mei g|0.06|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|194|^^^w101^Mer a|0.38|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|195|^^^t71^Mor r|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|196|^^^e103^Mus m 1|0.34|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|197|^^^f92^Mus a|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||

R|198|^^^f37^Myt e|0.03|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|199|^^^t224^Ole e 1|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|200|^^^t104^Ole e 2|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|201|^^^t9^Ole_pollen|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|202|^^^f342^Ole_fruit|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|203|^^^f283^Ori v|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|204|^^^f213^Ory_meat|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|205|^^^e82^Ory_epithelia|0.04|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|206|^^^f9^Ory s|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|207|^^^f290^Ost e|0.1|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|208|^^^f325^Ovi a_milk|2.28|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|209|^^^f88^Ovi a_meat|0.86|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|210|^^^e81^Ovi a_epithelia|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|211|^^^f515^Pan b|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|212|^^^f55^Pan m|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|213|^^^f516^Pap s 2S Albumin|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|214|^^^f224^Pap s|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|215|^^^w211^Par j 2|0.05|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|216|^^^w21^Par j|0.04|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|217|^^^g17^Pas n|2.18|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|218|^^^f338^Pec|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|219|^^^f517^Pen m 1|0.39|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|220|^^^m1^Pen ch|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|221|^^^i300^Per a 7|0.18|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|222|^^^i206^Per a|2.36|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|223|^^^f96^Pers a|0.02|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|224|^^^f86^Pet c|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|225|^^^f315^Pha v|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|226|^^^g205^Phl p 1|4.98|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|227|^^^g206^Phl p 2|0.58|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|228|^^^g215^Phl p 5.0|101|2.84|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|229|^^^g209^Phl p 6|0.04|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|230|^^^g210^Phl p 7|9.67|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|231|^^^g212^Phl p 12|0.03|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|232|^^^g6^Phl p 2.14|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|233|^^^t105^Pho d 2|0.29|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|234|^^^g7^Phr c|0.52|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|235|^^^f271^Pim a|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|236|^^^f203^Pis v|0.45|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|237|^^^f12^Pis s|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|238|^^^w234^P1a l 1|0.05|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|239|^^^w9^P1a l|0.11|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|240|^^^t11^P1a a|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|241|^^^t241^P1a a 1|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|242|^^^i210^Po1 d 5|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|243|^^^i4^Po1 d|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|244|^^^t14^Pop n|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|245|^^^f255^Pru do|0.14|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|246|^^^f20^Pru du|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|247|^^^f420^Pru p 3|2|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|248|^^^f95^Pru p|0.93|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|249|^^^f242^Pru av|0.57|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|250|^^^f94^Pyr c|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|251|^^^t7^Que r|0.36|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|252|^^^e73^Rat n|0.72|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|253|^^^f343^Rub i|0.06|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|254|^^^f207^Rud spp.|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|255|^^^w18^Rum a|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|256|^^^f45^Sac c|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|257|^^^f41^Sal s|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|258|^^^w11^Sal k|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|259|^^^g12^Sec c_pollen|1.03|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|260|^^^f5^Sec c_fLOUR|0.02|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|261|^^^f518^Ses i 1|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|262|^^^f10^Ses i|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|263|^^^f520^Sola l 6|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|264|^^^f25^Sola l|0.05|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|265|^^^f35^Sol t|0.04|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|266|^^^g10^Sor h|0.57|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|267|^^^f26^Sus d_meat|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|268|^^^e83^Sus d_epithelia|0.43|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|269|^^^t106^Syr v|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|270|^^^f40^Thu a|0|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||
R|271|^^^f98^Tri a Gliadin|0.65|kUA/1|||F|MACROARRAYDX\gunacker|20180220143028+0100||


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R|272|^^^f4^Tri a|0.55|kUA/1|||F||MACROARRAYDX\gunacker|20180220143028+0100||
R|273|^^^f124^Tri s|0.44|kUA/1|||F||MACROARRAYDX\gunacker|20180220143028+0100||
R|274|^^^d72^Tyr p|0|kUA/1|||F||MACROARRAYDX\gunacker|20180220143028+0100||
R|275|^^^t8^UIm c|0|kUA/1|||F||MACROARRAYDX\gunacker|20180220143028+0100||
R|276|^^^w20^Urt d|0|kUA/1|||F||MACROARRAYDX\gunacker|20180220143028+0100||
R|277|^^^f288^Vac m|0.17|kUA/1|||F||MACROARRAYDX\gunacker|20180220143028+0100||
R|278|^^^i209^Ves v|5|0|kUA/1|||F||MACROARRAYDX\gunacker|20180220143028+0100||
R|279|^^^i3^Ves v|0.04|kUA/1|||F||MACROARRAYDX\gunacker|20180220143028+0100||
R|280|^^^f521^Vit v|1|1.08|kUA/1|||F||MACROARRAYDX\gunacker|20180220143028+0100||
R|281|^^^g202^Zea m pollen|1.27|kUA/1|||F||MACROARRAYDX\gunacker|20180220143028+0100||
R|282|^^^f8^Zea m|0|kUA/1|||F||MACROARRAYDX\gunacker|20180220143028+0100||
P|2|U|||^^^|||||
O|1|01AAJ14111082018EST0030;01200;03000;0360;07500;1100;22000;3300;40000;11656;11802;0930EST|25||R|||||N||2018
0222151547+0100||^O|||||20180220151552+0100||F|||||
R|1|^^^Ige Std 1|67.55|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|2|^^^Ige Std 2|68.22|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|3|^^^Ige Std 3|67.21|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|4|^^^Ige Std 4|68.56|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|5|^^^Ige Std 5|68.89|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|6|^^^tIge1|124|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|7|^^^tIge2|124|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|8|^^^GD1|0|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|9|^^^GD2|0|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|10|^^^GD3|68.22|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|11|^^^t19^Aca m|0|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|12|^^^d70^Aca s|68.89|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|13|^^^f500^Act d|1|27.85|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|14|^^^f501^Act d|2|66.2|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|15|^^^f502^Act d|5|68.56|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|16|^^^f503^Act d|10|68.89|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|17|^^^f84^Act d|68.22|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|18|^^^f212^Aga b|68.22|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|19|^^^f48^A11 c|0|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|20|^^^f47^A11 s|0|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|21|^^^t100^Aln g|1|68.22|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|22|^^^t101^Aln g|4|68.89|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|23|^^^t2^Aln g|66.88|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|24|^^^m229^Alt a|1|68.56|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|25|^^^m6^Alt a|68.89|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|26|^^^w14^Ama r|58.46|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|27|^^^w230^Amb a|1|0|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|28|^^^w300^Amb a|4|47.03|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|29|^^^w1^Amb a|64.18|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|30|^^^f443^Ana o|3|25.16|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|31|^^^f202^Ana o|66.54|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|32|^^^k202^Ana c|2|68.56|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|33|^^^p10^Ani s|1|67.88|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|34|^^^p11^Ani s|3|10.03|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|35|^^^i208^Api m|1|68.56|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|36|^^^i214^Api m|2|0|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|37|^^^i217^Api m|10|8.48|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|38|^^^i1^Api m|0|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|39|^^^f417^Api g|1|68.89|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|40|^^^f504^Api g|2|67.88|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|41|^^^f505^Api g|6|68.89|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|42|^^^f85^Api g|68.89|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|43|^^^f422^Ara h|1|68.22|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|44|^^^f423^Ara h|2|67.21|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|45|^^^f424^Ara h|3|68.22|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|46|^^^f447^Ara h|6|68.56|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|47|^^^f352^Ara h|8|68.56|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|48|^^^f427^Ara h|9|49.72|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|49|^^^f13^Ara h|68.56|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|50|^^^w231^Art v|1|37.27|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|51|^^^w233^Art v|3|0|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|52|^^^w6^Art v|0|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|53|^^^m220^Asp f|3|0.52|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|54|^^^m221^Asp f|4|67.88|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|55|^^^m222^Asp f|6|68.22|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|56|^^^m3^Asp f|0|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|57|^^^f7^Ave s|34.24|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|58|^^^f354^Ber e|1|66.88|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|59|^^^f18^Ber e|68.56|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|60|^^^t215^Bet v|1|0|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||

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R|61|^^^t216^Bet v 2|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|62|^^^t225^Bet v 6|0.23|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|63|^^^t3^Bet v|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|64|^^^i100^Bla g 1|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|65|^^^i101^Bla g 2|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|66|^^^i102^Bla g 4|48.03|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|67|^^^i103^Bla g 5|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|68|^^^i6^Bla g|57.45|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|69|^^^d201^Blo t|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|70|^^^f76^Bos d 4|0.66|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|71|^^^f77^Bos d 5|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|72|^^^e204^Bos d 6|1.24|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|73|^^^f78^Bos d 8|67.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|74|^^^e100^Bos d 2|61.83|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|75|^^^f2^Bos d_milk|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|76|^^^f27^Bos d_meat|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|77|^^^e4^Bos d_epithelia|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|78|^^^f519^Sin a 1|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|79|^^^f89^Sin|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|80|^^^f216^Bra o|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|81|^^^f506^Cam d|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|82|^^^m5^Can a|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|83|^^^e101^Can f 1|67.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|84|^^^e102^Can f 2|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|85|^^^e221^Can f 3|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|86|^^^e5^Can f|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|87|^^^f300^Cap h_milk|64.18|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|88|^^^e80^Cap h_epithelia|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|89|^^^f218^Cap a|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|90|^^^f293^Car p|66.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|91|^^^f265^Car c|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|92|^^^f201^Car i|14.98|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|93|^^^e6^Cav p|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|94|^^^w100^Che a 1|60.15|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|95|^^^w10^Che a|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|96|^^^f347^Che q|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|97|^^^f23^Chi spp.|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|98|^^^f309^Cic a|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|99|^^^f33^Cit s|65.87|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|100|^^^m100^Cla h 8|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|101|^^^m2^Cla h|67.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|102|^^^f440^Cor a 9|66.54|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|103|^^^t102^Cor a 1.0103|67.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|104|^^^f428^Cor a 1.0401|66.54|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|105|^^^f425^Cor a 8|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|106|^^^f506^Cor a 11|67.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|107|^^^f439^Cor a 14|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|108|^^^t4^Cor a_pollen|24.99|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|109|^^^f17^Cor a_haze|67.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|110|^^^e84^Cri c|58.8|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|111|^^^t17^Cri j|1.53|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|112|^^^f87^Cuc m|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|113|^^^f226^Cuc p|67.21|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|114|^^^t226^Cup a 1|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|115|^^^t222^Cup s|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|116|^^^g2^Cyn d|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|117|^^^f355^Cyp c 1|62.5|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|118|^^^f507^Dau c 1|64.18|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|119|^^^f31^Dau c|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|120|^^^d100^Der f 1|58.46|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|121|^^^d101^Der f 2|14.05|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|122|^^^d2^Der f|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|123|^^^d104^Der p 7|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|124|^^^d103^Der p 5|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|125|^^^d202^Der p 1|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|126|^^^d203^Der p 2|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|127|^^^d205^Der p 10|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|128|^^^d102^Der p 11|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|129|^^^d209^Der p 23|60.15|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|130|^^^d1^Der p|66.54|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|131|^^^i25^Do1 spp|9.47|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|132|^^^e227^Equ c 1|13.38|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|133|^^^f286^Equ c_milk|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|134|^^^f321^Equ c_meat|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||

R|135|^^e3^Equ c_epithelia|66.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|136|^^f508^Fag e 2|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|137|^^f11^Fag e|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|138|^^t5^Fag s|67.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|139|^^e94^Fe1 d 1|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|140|^^e220^Fe1 d 2|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|141|^^e228^Fe1 d 4|8.9|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|142|^^e1^Fe1 d|62.5|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|143|^^k81^Fic b|66.2|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|144|^^f328^Fic c|66.2|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|145|^^f44^Fra a|67.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|146|^^t103^Fra e 1|20.11|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|147|^^t25^Fra e|66.54|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|148|^^f509^Gad m 1|66.2|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|149|^^f3^Gad m|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|150|^^f233^Gal d 1|65.87|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|151|^^f232^Gal d 2|50.73|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|152|^^f323^Gal d 3|63.51|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|153|^^k208^Gal d 4|51.4|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|154|^^f510^Gal d 5|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|155|^^f1^Gal d_white|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|156|^^f75^Gal d_yolk|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|157|^^f83^Gal d_meat|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|158|^^f353^Gly m 4|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|159|^^f431^Gly m 5|67.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|160|^^f432^Gly m 6|67.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|161|^^f511^Gly m 8|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|162|^^f14^Gly m|6.06|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|163|^^d105^Gly d 2|5.67|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|164|^^d73^Gly d|61.83|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|165|^^k84^He1 a|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|166|^^k215^Hev b 1|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|167|^^k217^Hev b 3|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|168|^^k218^Hev b 5|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|169|^^k220^Hev b 6.02|0.45|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|170|^^k221^Hev b 8|62.84|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|171|^^k224^Hev b 11|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|172|^^k82^Hev b|63.51|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|173|^^f80^Hom g|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|174|^^o214^Hom s LF|66.54|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|175|^^f6^Hor v|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|176|^^f324^Hum l|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|177|^^f441^Jug r 1|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|178|^^f512^Jug r 2|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|179|^^t10^Jug r_pollen|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|180|^^f256^Jug r_nut|0.52|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|181|^^t63^Jun a|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|182|^^f215^Lac s|65.19|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|183|^^f235^Len c|62.84|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|184|^^d71^Lep d|65.27|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|185|^^t210^Lig v|67.21|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|186|^^f348^Lit c|59.14|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|187|^^f24^Lit s|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|188|^^f258^Lo1|3.2|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|189|^^g100^Lo1 p 1|67.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|190|^^f335^Lup a|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|191|^^f513^Mac i 2S Albumin|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|192|^^f345^Mac intel|37.94|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|193|^^y3^Ma1a s 6|49.72|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|194|^^y1^Ma1a s 1|34.58|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|195|^^y2^Ma1a s 5|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|196|^^y4^Ma1a s 9|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|197|^^y5^Ma1a s 11|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|198|^^f434^Ma1 d 1|67.21|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|199|^^f514^Ma1 d 2|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|200|^^f435^Ma1 d 3|55.1|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|201|^^f49^Ma1 d|57.79|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|202|^^f91^Man i|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|203|^^f284^Me1 g|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|204|^^w101^Mer a|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|205|^^t71^Mor r|65.19|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|206|^^e103^Mus m 1|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|207|^^f92^Mus a|67.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|208|^^f37^Myt e|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||

R|209|^^^t224^Ole e 1|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|210|^^^t104^Ole e 2|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|211|^^^t9^Ole_pollen|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|212|^^^f342^Ole_fruit|65.87|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|213|^^^f283^Ori v|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|214|^^^f213^Ory_meat|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|215|^^^e82^Ory_epithelia|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|216|^^^f9^Ory s|64.86|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|217|^^^f290^Ost e|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|218|^^^f325^Ovi a_milk|19.77|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|219|^^^f88^Ovi a_meat|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|220|^^^e81^Ovi a_epithelia|66.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|221|^^^f515^Pan b|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|222|^^^f55^Pan m|50.05|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|223|^^^f516^Pap s 2S Albumin|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|224|^^^f224^Pap s|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|225|^^^w211^Par j 2|65.87|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|226|^^^w21^Par j|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|227|^^^g17^Pas n|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|228|^^^f338^Pec|5.15|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|229|^^^f517^Pen m 1|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|230|^^^m1^Pen ch|67.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|231|^^^i300^Per a 7|67.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|232|^^^i206^Per a|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|233|^^^f96^Pers a|66.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|234|^^^f86^Pet c|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|235|^^^f315^Pha v|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|236|^^^g205^Phl p 1|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|237|^^^g206^Phl p 2|0.16|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|238|^^^g215^Phl p 5.0101|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|239|^^^g209^Phl p 6|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|240|^^^g210^Phl p 7|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|241|^^^g212^Phl p 12|66.54|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|242|^^^g6^Phl p|65.87|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|243|^^^t105^Pho d 2|62.5|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|244|^^^g7^Phr c|49.72|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|245|^^^f271^Pim a|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|246|^^^f203^Pis v|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|247|^^^f12^Pis s|65.53|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|248|^^^w234^Pla l 1|32.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|249|^^^w9^Pla l|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|250|^^^t11^Pla a|63.51|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|251|^^^t241^Pla a 1|63.17|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|252|^^^i210^Pol d 5|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|253|^^^i14^Pol d|65.19|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|254|^^^t14^Pop n|65.19|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|255|^^^f255^Pru do|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|256|^^^f20^Pru du|67.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|257|^^^f420^Pru p 3|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|258|^^^f95^Pru p|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|259|^^^f242^Pru av|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|260|^^^f94^Pyr c|66.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|261|^^^t7^Que r|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|262|^^^e73^Rat n|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|263|^^^f343^Rub i|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|264|^^^f207^Rud spp.|69.23|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|265|^^^w18^Rum a|66.54|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|266|^^^f45^Sac c|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|267|^^^f41^Sa l s|68.89|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|268|^^^w11^Sa l k|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|269|^^^g12^Sec c_pollen|4.41|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|270|^^^f5^Sec c_fLOUR|67.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|271|^^^f518^Ses i 1|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|272|^^^f10^Ses i|61.83|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|273|^^^f520^So la 1 6|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|274|^^^f25^So la 1|58.13|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|275|^^^f35^Sol t|68.22|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|276|^^^g10^Sor h|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|277|^^^f26^Sus d_meat|0|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|278|^^^e83^Sus d_epithelia|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|279|^^^t106^Syr v|67.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|280|^^^f40^Thu a|66.88|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|281|^^^f98^Tri a Gliadin|68.56|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|282|^^^f4^Tri a|0.23|kUA/1|||F|HANNES-NOTEBOOK\Hannes|20180220151547+0100||

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R|283|^^^f124^Tri s|68.89|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|284|^^^d72^Tyr p|68.56|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|285|^^^t8^Ulm c|64.18|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|286|^^^w20^Urt d|50.73|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|287|^^^f288^Vac m|0|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|288|^^^i209^Ves v 5|60.15|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|289|^^^i3^Ves v|68.22|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|290|^^^f521^Vit v 1|66.88|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|291|^^^g202^Zea m pollen|67.88|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
R|292|^^^f8^Zea m|67.88|kUA/1|||F||HANNES-NOTEBOOK\Hannes|20180220151547+0100||
L|1|N
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