Quality assurance rules for Trade item information and Food & Beverage information

GDSN release 3.1.7
Validoo Q-lab

Version S
Valid from 2018-12-04
Quality assurance rules for Trade item information and Food & Beverage information
Validoo Q-lab

Version History

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<th>Version</th>
<th>Modification</th>
<th>Prepared by</th>
<th>Date</th>
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<td>Revision of quality assurance rules, From 2017-09-19:</td>
<td>Ralfsson</td>
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<td>&quot;Outer packaging&quot; is replaced by non-consumer item</td>
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3 Quality assurance rules for Food & Beverage information

3.1 Quality assurance rules for components

4 Quality assurance rules for components

Appendix 1

Appendix 2
1 Introduction

Product information is entered and validated in Validoo Item. It is checked that the information is properly structured according to the logic of trade item information that applies to the Swedish market. Even though the information is logically correct, it may turn out to be inconsistent with the actual product. The only way to make sure that the information is coherent with the product is to manually compare the trade information with a product sample. Validoo Q-lab helps you with that. WE also do a thorough check that the barcode is readable and properly designed to ensure that the product can be scanned at all stages in the sales chain.

Retailers and resellers need to know that the trade item information is correct in order to store, handle, market and sell the product correctly. Therefore, many buyers require that trade item information and barcodes are checked by Validoo Q-Lab prior to launching.

1.1 Purpose of the document

The purpose of this document is to describe the rules that apply for quality assurance in Validoo Q-lab and the attributes affected. Furthermore, it’s described how each rule is assessed and what the possible results are.

The quality assurance rules and criteria have been developed in cooperation with Validoo's Reference Group for Product Information and Data Quality. The rules are based on GS1’s standards and regulations, for instance the standard for Trade Item Information:

www.gs1.se/globalassets/artikelinformation/trade-item-information-guideline.pdf

1.2 Type of product sample

Validoo Q-Lab can check trade item information using a production sample, which is the actual product. If the product is still under development and is not yet in production, Validoo Q-Lab can instead preview a prototype. If the product is a variant of a previously approved product (e.g. a new flavour), Validoo can quality assure a digital sample, for example an artwork or print original. The document's appendix contains a table describing which rules are checked for which product sample types, and which rules are checked for consumer items and non-consumer items respectively. Read more about different sample types:


1.3 Results

A quality assurance report can generate two different primary results for a trade item:

- OK (approved): the trade item information matches the submitted sample. The barcode is of high quality.
- NOK (not approved): the trade item information and the submitted sample do not match. The barcode does not follow the guidelines.

An individual rule can in addition to OK or NOK also get the results:

- Warning: Suggestion to correct trade item information or barcode.
- N/A (not applicable): It is not relevant or possible to quality assure the attribute.
### 2 Quality assurance rules for Trade Item information

#### 2.1 Trade Item Identities

**Rule 735502 Functional name (T0018)**

<table>
<thead>
<tr>
<th>Rule 735502</th>
<th>Functional name (T0018) in the trade item information should correspond with the sample’s functional name for a consumer item.</th>
<th>OK/NOK</th>
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</thead>
</table>
**Note: Functional name is a general description of the item’s function or type of product, e.g. "book shelf" or "fruit juice".**

**How is the quality assurance performed?**

- a. Verify that the functional name in the trade item information does not contain the brand. The brand is what has been assessed in rule 735542 as the trade items brand or abbreviation thereof. Other brand-like words/phrases found on the product sample may appear in the functional name.
- b. Verify that the functional name in the trade item information does not contain any packaging size with exception for specification of multipack.
- c. Verify that the functional name in the trade item information does not contain the supplier’s article number or other incomprehensible text string "ABC78317".
- d. The functional name does not have to be printed on the product sample to be approved as functional name in the information. However, it is verified that the functional name in the trade item information doesn’t obviously contradict the actual content of the item (e.g. Functional name "Juice" in the trade item information for a package of cereals, or functional name "Tomato juice" for a bottle of Orange Juice), which would give the result NOK.
- e. Verify that the functional name in the trade item information has a Swedish character set.

**Rule 735513 Trade item, GTIN (T0154)**

| Rule 735513 | Trade item, GTIN (T0154) in the trade item information, should correspond with the numbers specified under the barcode on the sample or other GTIN marking. | OK/NOK |
**How is the quality assurance performed?**

- a. Visually verify that the GTIN in the trade item information matches, digit to digit, the numbers printed under the barcode or other GTIN marking on the sample. Zeros to fill out in the beginning of the GTIN are excluded.
- b. If the sample is a consumer item that has more than one barcode/label, verify that the GTIN matches the numbers under any one of the barcodes.
- c. If the sample is a non-consumer item with more than one barcode containing different GTINs, the result is NOK.
- d. If not all the numbers below the barcode can be interpreted (e.g. if the barcode is wrinkled or the numbers have become smudged) then it can’t be checked and the result will be N/A.
- e. If the sample doesn’t have a barcode or other GTIN marking, the result will be N/A.

**Rule 735542 Brand (T0143)**

| Rule 735542 | Brand (T0143) in the trade item information, should correspond with the brand on the product sample, for a consumer item. | OK/NOK |
**How is the quality assurance performed?**

- a. If one or more markings or logotypes resembling a brand are found on the sample, check that any one of them is fully or partially specified in T0143. Examples that give results OK: if
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sample=Gillette Fusion and trade item information=Gillette, sample=Bosses Bår and trade item information=BOSSES.

b. If brand is specified on the sample, verify that there is no apparent conflict with the specified value in T0143, e.g. sample=Gillette and trade item information=Gevalia.
c. If brand is specified on the sample, check that it isn’t spelled differently, e.g. sample=Gillette and trade item information=Gilete
d. If brand is specified on the sample in a language (e.g. English), it cannot be specified in the trade item information translated into another language.
e. If there are several marks on the sample that could be a brand, any one of them will be accepted.
f. Verify that the specified brand does not contain the company name (unless the brand is the same as the company name). Normally, the brand in the trade item information should not contain for example Limited Company/aktiebolag, Ltd/AB or such.
g. Verify that the specified brand does not contain product characteristics, e.g. bulk (unless the brand is the same as these).
h. If there is no brand on the sample, anything specified in the trade item information will be approved, except for the above, i.e. company name, product characteristics.

Rule 735511 Descriptive size (T3338)

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<tr>
<th>735511</th>
<th>Descriptive size (T3338) in the trade item information, should correspond with descriptive size for a consumer item and also follow the writing rules.</th>
<th>OK/NOK</th>
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</table>

The descriptive size makes it easier for the consumer to understand which item belongs with a specific shelf label. Therefore, Validoo Q-Lab compares the descriptive size specified in the trade item information with the descriptive size printed on the front of the packaging. If the package is marked with multiple descriptive sizes, the value in the trade item information should correspond to the text on the sample that has the largest font size.

How is the quality assurance performed?

a. If Descriptive size is entered in T3338 in the trade item information and a descriptive size is printed on the front of the sample (as defined by GDSN Measurement Rules) then the specified value must match the product sample.
b. When assessing the conformity, exceptions are made for space and established abbreviations, e.g. sample=200 gram and trade item information=200g gives the result OK.
c. When assessing the conformity, differentiation is not made between established terms like pieces/items/amount e.g. sample=Amount: 8 items and trade item information=8 pieces gives the result OK
d. When assessing the conformity, exceptions are made for different number decimals, e.g. sample=0,300 kg and trade item information=0,3 kg gives the result OK
e. When assessing the conformity, exceptions are made for different measurement units if the content is the same, e.g. sample=0,300 kg and trade item information=300 g gives the result OK. On the other hand, if the content doesn’t correspond e.g. sample=0,350 kg and trade item information=300 g the result is NOK
f. If measurement unit for descriptive size in the trade item information is missing, the result will be NOK, e.g. sample=300 grams and trade item information=300
g. If Descriptive size is specified in T3338 in the trade item information and more than one descriptive size is printed on the front of the product sample (as defined by GDSN Measuring Rules), the value in the trade item information should correspond to the text on the sample that has the largest font size. If a descriptive size with a smaller font size on the pack is entered in T3338 it will result in a Warning. If the font size is the same, or approximately the same, the specified value can match any of the values on the sample, which will give the result OK.
h. If Descriptive size is specified in T3338 in the trade item information and there is no descriptive size printed on the front of the sample (as defined by GDSN Measuring Rules), check if there are any descriptive sizes printed on the other sides of the sample.
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i. If Descriptive size is not specified in T3338 in the trade item information the result is N/A.

j. If there is no descriptive size on the sample the specified value in the trade item information will be accepted. For example, on a set with a shampoo bottle 300ml, a bottle with conditioner 300ml and a hair spray 150 ml without any descriptive size on the packaging anything specified will give the result OK, e.g., “3-pack”, “1pcs”, “300ml” etc.

i. Exception: If the specified value in the trade item information is in obvious conflict with the descriptive size the result will be NOK. E.g. the value “10 kg” in the trade item information for a 1 litre juice bottle.

k. Verify that the entered value for Descriptive size, (T3338) follow the writing rules specified in Guidelines for Trade Item information:
   i. The following characters should never be used to end words when using abbreviations: - Comma (,) – Period (.) - Semicolon (;)
   ii. Period (.) shall be used as a decimal point in numeric values, e.g. 2.8%
   iii. For multipacks, the number in the pack should be followed by the letter “P”, e.g. 4P
   iv. The number of servings in an item should be followed by PORT, e.g. 12 PORT

2.2 Packaging

Rule 735510 Packaging type (T0137)

735510 | Packaging type (T0137) in the trade item information, should correspond with the product sample’s packaging type or combination of packaging types. | OK/NOK
---|---|---

How is the quality assurance performed?

a. The sample’s packaging type is determined by using the images linked to the code list T0137 Packaging type code at [www.gs1.se/en/our-standards/Technical-documentation/code-lists](http://www.gs1.se/en/our-standards/Technical-documentation/code-lists). The specified value for Packaging type (T0137) in the trade item information is then compared with the assessed packaging type for the sample.

b. If the samples packaging type is Tray check if it also has packaging Shrinkwrap.

c. If the sample’s assessed packaging type is Tray and Shrinkwrap, verify that these two codes (and only they) are specified in the trade item information.

d. If the specified packaging type for Packaging type (T0137) doesn’t correspond with the Validoo Qlab assessed packaging type, but have code values that are equated (as below) the result is OK.

When comparing the packaging types, the following code values are equated:

- Box (BX) and Carton (CT)
- Cup/Tub (CU) & Jar (JR)
- Shrink-wrapped (SW) & Bag (BG) & Wrapper (WRP) and Pouch (PO)
- Tray (PU) & Box (BX)
- Gable top (GTG) & Brick (BRI)

Example OK:
- Sample=Tray and trade item information=Box
- Sample=Tray, Shrink-wrap and trade item information=Box, Wrapper

Example NOK
- Sample=Tray and trade item information=Tray, Shrink-wrap
- Sample=Tray and trade item information=Carton
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Rule 735533 Returnable package deposit identification (T0148)

| 735533 | If a code has been specified for Returnable package deposit identification (T0148) in the trade item information it should correspond with the deposit symbol on the sample and vice versa, i.e. if the sample has a deposit symbol the same code value must be specified in Returnable package deposit identification (T0148). | OK/NOK |

How is the quality assurance performed?

a. Verify if the packaging is marked with a deposit symbol or if the package is a known returnable package.
b. If the packaging is assessed to have deposit identification, verify that there is a code value specified for T0148 in the trade item information.
c. If the packaging is assessed to have deposit identification, and there is a value specified in the trade item information, verify that the specified value matches the samples deposit.
d. If the packaging obviously doesn’t have a deposit, verify that there isn’t a value entered in the trade item information. If the sample doesn’t have a deposit but there is a code value specified for T0148 the result is NOK.

Rule 735552 Packaging function (T4124)

| 735552 | If the sample is marked that it is packed in a modified atmosphere the code value MODIFIED_ATMOSPHERE should be specified for Packaging function (T4124) in the trade item information and vice versa, i.e. if the sample isn’t marked that it is packed in a modified atmosphere the code value shouldn’t be specified for Packaging function (T4124) in the trade item information. | OK/NOK |

How is the quality assurance performed?

a. If the sample is marked with the words "förpackad i en skyddande atmosfär", verify that the code value MODIFIED_ATMOSPHERE is specified for T4124.
b. If the sample is not marked with the words "förpackad i en skyddande atmosfär", verify that the code value MODIFIED_ATMOSPHERE isn’t specified for T4124.

Rule 735538 Data carrier family type (T0187)

| 735538 | Data carrier family type (T0187) in the trade item information, should correspond with the product sample’s data carrier type. | OK/NOK |

How is the quality assurance performed?

a. The barcode on the sample is scanned with a verifier, Axicon 6025-S. The specified value for Data carrier family type (T0187) should correspond with the samples scanned barcode type.
b. If the scanning shows that the barcode on the sample is a non-approved barcode type (e.g. Code 128, Code 39) the result will be NOK.
c. The barcode must be readable in order to verify that the specified Data carrier family type (T0187) in the trade item information is correct. If the barcode isn’t readable the result will be N/A.
2.3 Storage temperature

Storage temperature indicates how the product should be stored and kept. The information is for warehouse, distribution and stores and it’s not information intended for the consumer. If you want to specify the temperature printed on the consumer item, use the term T3775 Consumer Storage Instructions in the trade item information.

Rule 735701 Maximum temperature (T3796)

| 735701 | If the trade item is an orderable unit and the sample is marked with a maximum storage temperature, this should be specified for **Maximum temperature (T3796)** in the trade item information together with code value STORAGE_HANDLING for T3822. | OK/NOK |

How is the quality assurance performed?

a. If the sample is marked with a maximum storage temperature, verify that there is a specified value for T3796 in the trade item information and that the code value STORAGE_HANDLING is chosen for T3822.
b. If the sample is marked with a maximum storage temperature and there is a specified value for T3796 in the trade item information, verify that it matches the value on the sample.
c. When quality assuring, integers and decimals followed by zero(s) are equated, i.e. sample=18.0 and trade item information =18 gives the result OK and vice versa.
d. If the specified value in the trade item information has a higher accuracy then what is printed on the sample, e.g. 18 degrees on the sample but 18.4 degrees in the trade item information they are not corresponding which gives the result NOK.
e. When quality assuring, rounded degrees in the trade item information, is equated since the Guidelines for Trade Item information recommends integers. E.g. 18.4 on the sample and 18 in the trade item information gives the result OK. For half degrees on the sample e.g. 18.5 both a value rounded up and down is accepted, i.e. both 18 and 19 in the trade item information gives the result OK.
f. If the sample isn’t marked with a storage temperature but there is a specified value in the trade item information the result will be N/A (cannot be verified).

Rule 735703 Minimum temperature (T3797)

| 735703 | If the trade item is an orderable unit and the sample is marked with a minimum storage temperature, this should be specified for **Minimum temperature (T3797)** in the trade item information together with code value STORAGE_HANDLING for T3822. | OK/NOK |

How is the quality assurance performed?

a. If the sample is marked with a minimum storage temperature, verify that there is a specified value for T3797 in the trade item information and that the code value STORAGE_HANDLING is chosen for T3822.
b. If the sample is marked with a minimum storage temperature and there is a specified value for T3797 in the trade item information, verify that it matches the value on the sample.
c. When quality assuring, integers and decimals followed by zero(s) are equated, i.e. sample=18.0 and trade item information =18 gives the result OK and vice versa.
d. If the specified value in the trade item information has a higher accuracy then what is printed on the sample, e.g. 18 degrees on the sample but 18.4 degrees in the trade item information they are not corresponding which gives the result NOK.
e. When quality assuring, rounded degrees in the trade item information, is equated since the Guidelines for Trade Item information recommends integers. E.g. 18.4 on the sample and 18 in the trade item information gives the result OK. For half degrees on the sample e.g. 18.5 both a value rounded up and down is accepted, i.e. both 18 and 19 in the trade item information gives the result OK.
f. If the sample isn’t marked with a storage temperature but there is a specified value in the trade item information the result will be N/A (cannot be verified).
2.4 Net content

Rule 735509 Net content (T0082)

<table>
<thead>
<tr>
<th>735509</th>
<th>Net content (T0082) in the trade item information should correspond with the content stated on the sample.</th>
<th>OK/NOK</th>
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</table>

How is the quality assurance performed?

a. If there is a content stated on the sample in any of the approved units (grams, milliliters, millimeters, square meters, cubic meters, pieces) verify that the same value is specified for Net content (T0082) in the trade item information. When verifying, rounded values are not equated, e.g. sample=300.5 gram is not the same as trade item information=300g and gives the result NOK.

b. For a sample which has two net contents stated on the packaging (i.e. drained weight and total content) at least one of the two quantities must be specified in the trade item information.

c. If there is no value printed on the sample in any of the approved units (grams, milliliters, millimeters, square meters, cubic meters, pieces) verify that the net content in the trade item information isn’t clearly inconsistent from the samples actual content (e.g. content “5 pieces” on a box of 100 matches) which gives the result NOK. All specified values that are reasonable give the result OK.

d. When quality assuring, the same value with different units are equated, e.g. sample 1.5 kg and trade item information =1500 gram gives the result OK.

e. When quality assuring, integers and decimals followed by zero(s) are equated, i.e. sample=300 gram and trade item information=300.00 gram gives the result OK and vice versa.

Rule 735530 Measurement unit (T3780) to Net content (T0082)

<table>
<thead>
<tr>
<th>735530</th>
<th>Measurement unit (T3780) in the trade item information connected to Net content (T0082) should correspond to the measurement for net content on the sample, for a consumer item.</th>
<th>OK/NOK</th>
</tr>
</thead>
</table>

How is the quality assurance performed?

a. If there is a content stated on the sample in any of the approved units (grams, milliliters, millimeters, square meters, cubic meters, pieces) verify that the same measurement unit is specified for T3780 connected to T0082 in the trade item information.

b. If there is no value printed on the sample in any of the approved units (grams, milliliters, millimeters, square meters, cubic meters, pieces) verify that the measurement unit for the net content in the trade item information isn’t clearly different from the samples actual content (e.g. content “1 cubic meter” on a box of matches).

Rule 735522 Price comparison measurement (T0147)

<table>
<thead>
<tr>
<th>735522</th>
<th>Price comparison measurement (T0147) in the trade item information should correspond to the sample if it is a consumer item and is marked with the content.</th>
<th>OK/NOK</th>
</tr>
</thead>
</table>

How is the quality assurance performed?

a. If there is a price comparison measurement printed on the sample in any of the approved units (grams, milliliters, millimeters, square meters, cubic meters, pieces) verify that the same value is specified for Price comparison measurement (T0147) in the trade item information.

b. If there is no value printed on the sample in any of the approved units (grams, milliliters, millimeters, square meters, cubic meters, pieces) verify that the content in the trade item
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- Information isn’t clearly different from the samples actual content (e.g. content “2 pieces” on a box with 100 matches).
- When quality assuring, the same value with different units are equated, e.g. sample 1.5 kg and trade item information =1500 gram gives the result OK.
- When quality assuring, integers and decimals followed by zero(s) are equated, i.e. sample=300 gram and trade item information=300.00 gram gives the result OK and vice versa.
- When quality assuring rounded values are not equated, e.g. sample=300.5 gram is not considered to correspond with trade item information 300 gram, and gives the result NOK.
- For a sample which has two net contents stated on the packaging (e.g. weight in grams and volume in milliliters) it is verified that at least one of the two quantities is specified in the trade item information.
- For some trade items, there are special instructions about which base for calculating should be used (Swedish Consumer Agency Price Info Guide - 2012). If the wrong type of base for calculation is specified for Price comparison content type (T0145) the result will be NOK.

The following bases for calculations should be used:

I. For products sold in packages with several units consumed separately, the comparative price is calculated in the same unit of measurement as for the individual product.

II. For products on roll, coil, ball and such, the comparison price is calculated per meter. For soft paper, the comparison price is calculated per kilogram, excluding the weight of the sleeve.

III. For materials that cover a surface, the comparative price is calculated per square meter. For wallpaper with paper-type quality, the price is per roll and for color per liter.

IV. For products with recommended dosage, e.g. detergents, the comparative price is calculated per recommended dose according to the normal dosage of the product.

V. For products to be diluted with water, the comparative price is calculated per quantity of consumable product or standard solution.

If price comparison measurement is not specified, the result is NOK, with exception for (Swedish Consumer Agency Price Info Guide - 2012): products containing less than 50 g or 50 ml, packages containing several different items, and for products sold mainly for their cosmetic properties.

Rule 735531 Measurement (T3780) till Price comparison measurement (T0147)

| Measurement unit (T3780) in the trade item information connected to Price comparison measurement (T0147) should correspond with the specified measurement unit on the sample, for a consumer item. |
|---|---|
| OK/NOK |

How is the quality assurance performed?

a. If there is a content stated on the sample in any of the approved units (grams, milliliters, millimeters, square meters, cubic meters, pieces) verify that it is the same unit specified for T3780 connected to T0147 in the trade item information.

b. If there is no value printed on the sample in any of the approved units (grams, milliliters, millimeters, square meters, cubic meters, pieces) verify that the measurement unit for the net content in the trade item information isn’t clearly different from the samples actual content (e.g. content “1 cubic meter” on a box of matches).
2.5 Marks

Rule 735507 Trade item date packaging format (T3362)

| 735507 | If best before or expiration date is stated on the sample of a consumer item, Trade item date packaging format (T3362) in the trade item information should be specified and correspond to the format on the sample. | OK/NOK |

How is the quality assurance performed?

a. Verify visually if there is a date marking on the sample. If there is no date mark on the sample and there isn’t anything specified in the trade item information the result will be OK.

b. If Trade item date packaging format (T3362) is specified in the trade item information but it’s missing on the sample the information cannot be verified and the result will be N/A.

c. If there is a date marked on the sample but no date format is specified in the trade item information the result will be NOK.

d. If there is a date marking on the sample and it’s specified in the trade item information, verify that they correspond according to below:

i. All types of punctuation marks are equated, e.g. sample=2017-08-08 and trade item information=YYYY.MM.DD gives the result OK.

ii. The value for Trade item date packaging format (T3362) in the trade item information has a maximum length of 10 characters. You can therefore not enter dd-mmm-yyyy (11 characters). If a date with the format dd-mmm-yyyy is printed on the package, the format dd-mm-yyyy should be specified in the trade item information, which gives the result OK.

iii. If it is obvious that the specified value for Trade item date packaging format (T3362) in the trade item information differs from the marking on the sample the result will be NOK, e.g. sample=01-10-2018 and trade item information=YYYY-DD

iv. If it is impossible to determine with certainty what is year, month and day, e.g. sample=18-11-18 and trade item information=yy-mm-dd, but the specified value is reasonable the result will be OK. An example of an unreasonable value is a sample marked 181001 and the specified value in the trade item information is ddmmyy, with reference to the fact that year 2001 already has passed.

v. If the year, month and day is in the correct order but the number of positions does not match, the result will be OK, e.g. sample=18-12-24 and the trade item information YYYY-MM-DD.

vi. If the sample is an unpacked consumer item, e.g. bread or bake potato, the specified value is not compared with the date printed on the outer packaging. (NEW 2018-11-05) The verification will be based on a. or b.

Rule 735523 Packaging marked diet allergen (T4028)

| 735523 | If there is an allergen/diet mark stated on the sample of a consumer item, the specified value for Packaging marked diet allergen (T4028) in the trade item information should correspond with the sample. If there is no marking on the sample, there shouldn’t be a value specified for Packaging marked diet allergen (T4028) in the trade item information. | OK/NOK |

How is the quality assurance performed?

a. Verify visually if there are one or more markings on the sample that are included in the code list T4028 Allergen/Diet mark (see www.gs1.se/en-codelist).

b. If there is an allergen/diet marking on the sample, verify that the correct code value has been specified. If there is more than one marking, verify that they all are specified correctly in the trade item information.
c. Verify that there isn’t a code value specified for Packaging marked diet allergen (T4028) in the trade item information that isn’t stated on the sample.

Whether or not there is a match between code value and marking on the sample is assessed as follows:

<table>
<thead>
<tr>
<th>Selected code value</th>
<th>Exact mark on sample (statement in a foreign language is only accepted if the spelling differs only slightly from Swedish, e.g. Te/Tea, Tomat/Tomato)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rek. av Astma och Allergi Förbundet</td>
<td>Symbol marked on the sample: [Symbol]</td>
</tr>
<tr>
<td>tube feeding</td>
<td>“Sondnäring”, “Produkten får användas som sondnäring” or similar phrase containing the word sondnäring.</td>
</tr>
<tr>
<td>contains latex</td>
<td>“Produkten innehåller latex” or similar phrase containing the word latex.</td>
</tr>
<tr>
<td>Contains PVC, phthalate content unspecified (healthcare items)</td>
<td>The result will be NOK for an obviously incorrect code value (for example, if the code value is used on a food that is not labeled as containing PVC), in other case the result is N/A.</td>
</tr>
<tr>
<td>Contains PVC, with phthalates (healthcare items)</td>
<td>The result will be NOK for an obviously incorrect code value (for example, if the code value is used on a food that is not labeled as containing PVC), in other case the result is N/A.</td>
</tr>
<tr>
<td>Contains PVC, without phthalates (healthcare items)</td>
<td>The result will be NOK for an obviously incorrect code value (for example, if the code value is used on a food that is not labeled as containing PVC), in other case the result is N/A.</td>
</tr>
<tr>
<td>“Särnär” phenylalanine-low</td>
<td>“Fenylalaninfattig”, “Lågt innehåll av fenylalanin” or similar phrase indicating that the content of phenylalanine is low.</td>
</tr>
<tr>
<td>The product is lean, light, less sweetened</td>
<td>The result will be NOK for an obviously incorrect code value (for example, if the code value is used on a matchbox without labelling). In other case the result is N/A.</td>
</tr>
<tr>
<td>Infant formula</td>
<td>“Modersmjöksersättning”, “Produkten är godkänd som modersmjöksersättning” or similar phrases containing the word modersmjöksersättning.</td>
</tr>
<tr>
<td>Dietary supplement</td>
<td>The result will be NOK for an obviously incorrect code value (for example, if the code value is used on a matchbox without labelling). In other case the result is N/A.</td>
</tr>
</tbody>
</table>

Rule 735525 Packaging marked free from (T4031)

735525 If there is a Free-from marking stated on a consumer item, the specified value for Packaging marked free from (T4031) in the trade item information should correspond with the sample. If there is no marking on the sample, there shouldn’t be a value specified for Packaging marked free from (T4031) in the trade item information. OK/NOK

“Fri från” statements on products for the Swedish market are linked to regulations, limit values and an obligation to report to the Swedish Food Safety Authority (except for the two code values regarding healthcare items). The regulations for what can be labelled “Fri från” constitute sections 14-16§§ of the Swedish Food Safety Authority’s regulations (LIVSFS 2014: 4) on food information (see www.livsmedelsverket.se).
Validoo Q-lab does not check whether “Fri från” marking on a sample is relevant or meets the criteria set by the Swedish Food Safety Authority. But, if any “Fri från” code is specified in the trade item information, there should be a corresponding marking on the sample and vice versa. Since the Swedish regulations for "Fri från" labelling of food may differ from other countries, a label with the words “Free from” is not considered to be equal to “Fri från” The product must be marked with the Swedish label “Fri från” to be considered matching with the code value in T4031. (NEW 2018-11-05)

How is the quality assurance performed?

a. Verify visually if there are one or more markings on the sample which are included in the code list for Packaging marked free from (T4031).

b. If there is a free from marking on the sample, verify that the right code value is selected. If there is more than one marking, verify that all the code values are specified, correctly in the trade item information.

c. Verify that there isn’t any code value selected for Packaging marked free from (T4031) in the trade item information that isn’t stated on the sample.

d. Verify that sample and trade item information corresponds according to following:

<table>
<thead>
<tr>
<th>Selected code value</th>
<th>Exact mark on sample (statement in a foreign language is only accepted if the spelling differs only slightly from Swedish, e.g. Te/Tea, Tomat/Tomato)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Free from egg</td>
<td>“Fri från ägg” “Äggfri” or similar phrase containing the words fri(tt) and ägg, gives result OK. However eg &quot;Free from egg&quot; in English gives the result NOK if the code value is specified. (NEW 2018-11-05)</td>
</tr>
<tr>
<td>Free from fish</td>
<td>“Fri från fisk” or similar phrase containing the words fri(tt) and fisk, gives the result OK. However eg &quot;Free from fish&quot; in English gives the result NOK if the code value is specified. (NEW 2018-11-05)</td>
</tr>
<tr>
<td>Gluten free</td>
<td>“Glutenfri(tt)” “Fri från gluten” gives the result OK. However, “Gluten free”, “Free from gluten” in English, “innehåller inte gluten”, “naturligt fri från gluten” gives the result NOK if the code value is specified. (NEW 2018-11-05)</td>
</tr>
<tr>
<td>Free from lactose/Lactose free</td>
<td>“Fri från lactos” “Laktosfri(tt)” or similar phrase containing the words fri(tt) and lactos, gives the result OK. Also OK is if the product is marked as containing lactose in a concentration less than 0,01 gram per 100 gram or less than 0,01% (by weight). However “Free from lactose” in English, “Låglaktos” or “Laktosreducerad” gives the result NOK. (NEW 2018-11-05)</td>
</tr>
<tr>
<td>Free from latex (healthcare items)</td>
<td>“Fri från latex” “Latexfri(tt)” “Free from latex” or similar phrases indicating that the product is free from latex all give the result OK.</td>
</tr>
<tr>
<td>Free from peas</td>
<td>“Fri från ärtprotein” ”Ärtproteinfri(tt)” or similar phrase containing the words fri(tt) and ärtprotein (årtä), gives the result OK. However eg “Free from pea” in English gives the result NOK. (NEW 2018-11-05)</td>
</tr>
<tr>
<td>Free from milk</td>
<td>“Fri från mjölk” ”Mjölkfri(tt)” or similar phrase containing the words fri(tt) and mjölk, gives the result OK. However eg “Free from milk/dairy” in English gives the result NOK. (NEW 2018-11-05)</td>
</tr>
<tr>
<td>Free from peanuts</td>
<td>“Fri från jordnötter” ”Jordnötfri(tt)” or similar phrase containing the words fri(tt) and jordnöt, gives the result OK. However eg “Nut free” in English gives the result NOK. (NEW 2018-11-05)</td>
</tr>
<tr>
<td>Free from PVC (healthcare items)</td>
<td>“Fri från PVC” ”PVC-fri(tt)” “Free from PVC” ”Polyvinylklorid-fri” or similar phrases indicating that the product is free from PVC all give the result OK.</td>
</tr>
</tbody>
</table>
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Free from Soya
"Sojafritt" or similar phrase containing the words fri(tt) and soja, gives the result OK. However eg "Free from soya" in English gives the result NOK. (NEW 2018-11-05)

Lactose reduced/Low lactose
"Laktosreducerad", "Läglaktos" or inflection thereof gives the result OK. Also OK is if the product is marked as containing lactose in a concentration less than 1 gram per 100 gram or less than 1% (by weight). However eg "Laktosfri" or "Low lactose" in English gives the result NOK. (NEW 2018-11-05)

Very low gluten content
"Mycket låg glutenhalt" or inflection thereof gives the result OK. However eg "Glutenfri" or "Low gluten" in English gives the result NOK. (NEW 2018-11-05)

Rule 735700 Packaging marked label accreditation (T3777)

735700 If there is an accredited marking stated on the sample of a consumer item, the value specified for Packaging marked label accreditation (T3777) in the trade item information should correspond with the sample. If there is no marking on the sample, there shouldn’t be a value specified for Packaging marked label accreditation (T3777) in the trade item information. OK/NOK

How is the quality assurance performed?

a. Verify visually if there are one or more markings on the sample which are included in the code list for Packaging marked label accreditation (T3777) in the trade item information, see the list of accredited marks in appendix.
   i. Exception: If the sample is marked with an FSC-marking referring only to the packaging material, Packaging marked label accreditation (T3777) doesn’t need to be specified in the trade item information.

b. If there is a marking on the sample, verify that the correct code value is selected in the trade item information.

c. If there is more than one marking, verify that all the code values are specified correctly in the trade item information.

d. Verify that there isn’t a code value selected for Packaging marked label accreditation (T3777) in the trade item information that isn’t on the sample.

e. For a marking to be assessed as being on the sample, it must have exactly the same design as specified by the issuing party.

Examples of accredited marking:

Bra Miljöval
"Falken", "KRAV" and "Det överkorsade axet".

2.6 Chemical products and Dangerous goods

Rule 735546 United Nations dangerous goods number (T0169)

735546 If the sample is marked with UN-number and/or symbol for limited quantities for dangerous goods, there should be a value specified for United Nations dangerous goods number (T0169) in the trade item information and it should correspond with the sample. If there is no UN-number and/or symbol for limited quantities for dangerous goods stated on the sample, there OK/NOK
shouldn’t be a value specified for United Nations dangerous goods number (T0169) in the trade item information.

How is the quality assurance performed?

a. If there is a UN-number on the sample, verify that the corresponding UN-number is specified for United Nations dangerous goods number (T0169) in the trade item information.
b. There is no check of whether the UN-number on the sample and/or the trade item information is correct in relation to the content.
c. If there is a limited quantity symbol on the sample the UN-number should be specified in the trade item information even though the sample isn’t marked with UN-number. If UN-number is specified, the result will be OK to indicate that there is a value specified. If there isn’t a UN-number specified in the trade item information the result will be NOK and this will be indicated “XXX” to show that a value should be specified.
d. If there is a UN-number specified in the trade item information but there is no UN-number or limited quantity symbol on the sample the result will be NOK.
e. If there is a UN-number in the trade item information and on the sample but it obviously does not comply with the law on how the marking should be stated, the sample will be assessed as not having a UN-number, which gives the result NOK in accordance with d.

Example of UN-number marking:

Rule 735547 ADR dangerous goods limited quantities (T4140)

735547 If the sample is marked with a symbol for "limited quantities", ADR dangerous goods limited quantities (T4140) should be specified with the code value USED or NOT_POSSIBLE and vice versa, i.e. if the sample doesn’t have a marking there shouldn’t be a code value specified.

How is the quality assurance performed?

a. If the sample is marked with the symbol for limited quantities but without UN-number verify that code value "USED/ There are rules for limited quantities and the manufacturer applies these", is selected for ADR dangerous good limited quantities (T4140) in the trade item information.
b. If the sample is marked with the symbol for limited quantities and the UN-number is specified, verify that the code value “NOT_POSSIBLE/Code corresponding ADR (LQ0) (Limited quantity not possible)” is selected for ADR dangerous good limited quantities (T4140) in the trade item information.
c. If the sample isn’t marked with a symbol for “limited quantities” verify that there is no code value selected for ADR dangerous good limited quantities (T4140) in the trade item information.

Symbol for limited quantities:
Rule 735601 GHS Symbol description (T3745) (pictograms)

| 735601 | If the sample is marked with one or more chemical symbol description(s) (pictogram) the matching code value should be specified for GHS Symbol description (T3745) in the trade item information. If the sample is a chemical product without pictogram, the code value “no pictogram” should be specified. Pictograms that are not printed on the sample should not be specified in the trade item information. | OK/NOK |

How is the quality assurance performed?

a. If the sample is marked with one or more pictograms, verify that they all are specified with the correct code value for GHS Symbol description (T3745) in the trade item information.

b. If the sample isn’t a chemical product and not marked with pictograms, verify that there isn’t anything specified for GHS Symbol description (T3745) in the trade item information.

c. If the sample is a chemical product that has a hazardous and/or precautionary statement but not a pictogram, verify that the code value “no pictogram” is selected for GHS Symbol description (T3745) in the trade item information.

Rule 735604 GHS signal words (T5044)

| 735604 | If the sample is marked with one or more pictograms the signal word listed below or in connection with each pictogram should be specified for GHS Signal words (T5044) in the trade item information and vice versa, i.e. if there is no pictogram marked on the sample there shouldn’t be any signal words specified in the trade item information. | OK/NOK |

How is the quality assurance performed?

a. If the sample is marked with one or more pictograms with signal words, verify that all signal words are specified with the correct code value for GHS signal words (T5044) in the trade item information.

b. If the sample is marked with one or more pictograms without signal words below, verify that the code value “value not specified” is selected for GHS signal words (T5044) in the trade item information.

c. If the sample isn’t marked with a pictogram, verify that there isn’t anything specified for GHS signal words (T5044) in the trade item information.

In the example below it is the text “Warning” under the pictogram that should be specified with the code value “Warning” for GHS signal words (T5044) in the trade item information. If there isn’t any text under the pictogram the code for “value not specified” should be selected in the trade item information.

Example of signal word “Warning”: 
Rule 735602 Hazard statements description (T5048)

| 735602 | If the sample is marked with one or more hazard statements the same text should be specified for **Hazard statements description (T5048)** in the trade item information and vice versa, i.e. if there is no hazard statement printed on the sample there shouldn’t be anything specified in the trade item information. | OK/NOK |

**How is the quality assurance performed?**

a. If the sample is marked with one or more hazard statements, verify that all statements are specified for Hazard statements description (T5048) in the trade item information.

b. If there is a hazard statement on both the sample and the trade item information, verify that they match completely character to character, both letters and punctuation marks.

c. If hazard statement is specified in the trade item information but is not printed on the sample the result will be NOK.

d. If the text on the sample is completely or partially unreadable it will be assessed as if the sample doesn’t have a statement and the result will be NOK (in accordance with c.).

e. If any other text, then a hazard statement is specified for Hazard statement description (T5048) in the trade item information the result will be NOK.

Rule 735603 Precautionary statements description (T5050)

| 735603 | If the sample is marked with one or more precautionary statements the same text should be specified for **Precautionary statements description (T5048)** in the trade item information and vice versa, i.e. if there is no precautionary statement printed on the sample there shouldn’t be anything specified in the trade item information. | OK/NOK |

**How is the quality assurance performed?**

a. If the sample is marked with one or more precautionary statements, verify that all statements are specified for Precautionary statements description (T5048) in the trade item information.

b. If there is a precautionary statement on both the sample and the trade item information, verify that they match completely character to character, both letters and punctuation marks.

c. If precautionary statement is specified in the trade item information but is not printed on the sample the result will be NOK.

d. If the text on the sample is completely or partially unreadable it will be assessed as if the sample doesn’t have a statement and the result will be NOK (in accordance with c.).

e. If any other text, then a precautionary statement is specified for Precautionary statement description (T5050) in the trade item information the result will be NOK.
2.7 Dimensions/Weight

Rule 735503 Trade item measurements, width (T4017)

| 735503 | Trade item measurements, width (T4017) in the trade item information should correspond to the samples width. | OK/NOK |

Rule 735504 Trade item measurements, depth (T4018)

| 735504 | Trade item measurements, depth (T4018) in the trade item information should correspond to the samples depth. | OK/NOK |

Rule 735505 Trade item measurements, height (T4019)

| 735505 | Trade item measurements, height (T4019) in the trade item information should correspond to the samples height. | OK/NOK |

How is the quality assurance performed?

a. The sample is measured by callipers/ruler, and in different ways depending on whether the trade item is a consumer item or not, i.e. if Is trade item a consumer unit (T4037) is specified with Yes/True or No/False. The measurements are also depending on which side is the front of the product (as defined in the Measurement Rules https://www.gs1.se/en/GS1-in-practice/Trade-Item-Information/Measurement-rules/). Also, any protruding parts such as caps and handles should be included in the measurement.

b. The measurement result is compared to the specified value in the trade item information and verified that the value is within the tolerance as defined in GDSN Package Measurement Rules.

c. For reusable crates (Svenska Retursystem “SRS”), the value in the trade item information is compared with the corresponding column for width, depth, height in code list T0148 and for the reusable crates dimensions, it should be the exact value specified in the trade item information (no tolerance).

d. If T0186 Variable unit = Yes/True, there is no limit for tolerance and the result will be OK. The exception is variable units that are reusable crates. They will be given the result NOK if the specified values don’t correspond with the values in the code list T0148.

Example of the definition of a product's front according to the Measurement Rules:

Watch a movie about how different products should be measured.
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Rule 735506 Trade item gross weight (T4020)

<table>
<thead>
<tr>
<th>Rule</th>
<th>Description</th>
<th>OK/NOK</th>
</tr>
</thead>
<tbody>
<tr>
<td>735506</td>
<td>Trade item gross weight (T4020) in the trade item information should correspond to the samples gross weight.</td>
<td>OK/NOK</td>
</tr>
</tbody>
</table>

The items gross weight (T4020) in the trade item information for an outer package is important and is used to calculate cargo weight etc. in the logistics chain. Therefore, it is important that the gross weight specified in the information corresponds with the real weight and Validoo Q-Lab always weighs the full outer packaging. Just calculating the theoretical weight of the next lower level packages plus packaging weight, in most cases, gives a too low gross weight because it does not take into account a natural overweight in each individual next lower level product.

To find out the actual gross weight of an outer package, you often need to weigh a number of packages (for example ten cases) and calculate an average of their gross weight in order to provide a reliable weight in the trade item information.

How is the quality assurance performed?

- a. The sample is weighed with a digital scale. The result is compared to the specified value for Trade items gross weight (T4020) in the trade item. The specified value should be within the tolerance as defined in GDSN Package Measurement Rules.
- b. For pharmaceutical products, eggs and if the trade item is a reusable crate (SRS), the gross weight is not verified and the result will be N/A.
- c. For non-oderable consumer items under 6.8 kg there is no limit for tolerance of the gross weight. This means that for normal consumer packaging packed and shipped in an outer package, the gross weight of the consumer packaging is not quality assured, only the gross weight of the outer packaging is checked.
- d. Orderable consumer items under 6.8 kg should be within the tolerance according to GDSN Package Measurement Rules. This applies, for example, to a consumer item which is a two-kilo bucket transported directly on a pallet.
- e. For the outer package, it is always the physical package and all wrapping that is weighed. The sum of the next lower level packages is not used to calculate the gross weight.
- f. Gross weight is also checked for product samples weighing more than 15 kg, but many buyers do not accept packages weighing over 15 kg due to the working environment.

Rule 735537 Nesting increment (T3378)

<table>
<thead>
<tr>
<th>Rule</th>
<th>Description</th>
<th>OK/NOK</th>
</tr>
</thead>
<tbody>
<tr>
<td>735537</td>
<td>Nesting increment (T3378) in the trade item information should correspond to the samples nesting increment.</td>
<td>OK/NOK</td>
</tr>
</tbody>
</table>

How is the quality assurance performed?

- a. The sample is measured by callipers/ruler and the result is compared to the specified value in the trade item information.
- b. Verify that the specified value is within the tolerance for the measurement.
- c. If the trade item has a nesting increment that differs from the regular height but there is no value specified for T3378 in the trade item information the result will be NOK.
- d. If there is a value specified for T3378 in the trade item information but the sample doesn’t have a nesting increment the result will be NOK.
- e. For reusable crates “SRS”, the value in the trade item information is compared with the specified value in code list T0148 column “Nesting increment” or “Alternative nesting increment”. Both specified values will give the result OK.
- e. If T0186 Variable unit = Yes/True, there is no limit for tolerance and the result will be OK. The exception is variable units that are reusable crates “SRS”. They will be given the result NOK if the specified values don’t correspond with the values in the code list T0148 (according to e.).
2.8 Packaging hierarchy

Rule 735501 Quantity of next lower level trade item (T3361)

<table>
<thead>
<tr>
<th>735501</th>
<th>Quantity of next lower level trade item (T3361) specified in the trade item information should be the same number of next lower level trade items as in the sample.</th>
<th>OK/NOK</th>
</tr>
</thead>
</table>

How is the quality assurance performed?

a. The sample (outer packaging) is opened and next lower level items are counted. The number of next lower level items in the sample must match exactly with the specified number in the trade item information.

b. When previewing a prototype, the outer packaging must be filled up with the correct number of samples of the same size and shape as the original items, but the next lower level items do not need to have the same GTIN as the original items. If the number of items in the sample is correct but they do not have the same dimensions and shape as the original, the result will be NOK.

c. If the outer package is a reusable crate “SRS” the next lower level item isn’t verified and the result will be N/A.

Rule 735521 Child trade item, GTIN (T2045)

<table>
<thead>
<tr>
<th>735521</th>
<th>Child trade item, GTIN (T2045) in the trade item information should correspond to the numbers under the barcode or other GTIN marking printed on the sample of the child trade item.</th>
<th>OK/NOK</th>
</tr>
</thead>
</table>

How is the quality assurance performed?

a. Verify that the same GTIN is specified for Child trade item, GTIN (T2045) in the trade item information as printed under the barcode or other marking on the next lower level items.

b. If the next lower level item samples don’t have a barcode or other GTIN marking, the result will be N/A.
### 2.9 Data carrier/Barcode

#### Rule 735514 Barcode readability

<table>
<thead>
<tr>
<th>735514</th>
<th>The barcode on the sample must be readable by a handheld scanner, and the scanned value should correspond to the actual value i.e. the numbers printed below the barcode.</th>
<th>OK/NOK</th>
</tr>
</thead>
</table>

**How is the quality assurance performed?**

- a. Verify that the barcode is readable by a DataLogic Heron D130 Black handheld scanner. Non-readable barcode gives the result NOK.
- b. Verify that the scanned numbers correspond with the numbers under the barcode.
- c. If the barcode is readable but not all the numbers below the barcode can be interpreted (e.g. if the barcode is wrinkled or the numbers have become smudged) the result will be N/A.
- d. If the sample doesn’t have a barcode, no quality assurance can be done and the result will be N/A.
- e. If rule 735513 is NOK, i.e. numbers below the barcode do not match the Trade item, GTIN (T0154) in the trade item information, the scanned result is checked anyway against the numbers below the barcode. The result will be OK if the barcode is readable and the scanned value matches the numbers below the barcode.

#### Rule 735550 Barcode readability, non-consumer item

<table>
<thead>
<tr>
<th>735550</th>
<th>If a non-consumer item is marked with a barcode is should be readable with ISO-certified verifying equipment.</th>
<th>OK/NOK/Warning</th>
</tr>
</thead>
</table>

**How is the quality assurance performed?**

- a. If the attribute Is trade item a consumer unit (T4037) has the value Nej/False specified in the trade item information, the barcode on the sample is verified with a ISO certified verifying equipment of the type Axicon 6025-S.
- b. If a barcode is missing the result will be N/A.

**Possible measurement results in the verification equipment and corresponding results:**

- A=OK
- B=OK
- C=OK
- D=Warning (OK if the barcode is of the type ITF-14 and printed directly on carton/cardboard)
- F=NOK
- Barcode not readable (NR) = NOK

#### Rule 735516 Multiple barcodes

<table>
<thead>
<tr>
<th>735516</th>
<th>An item cannot have more than one readable barcode if there are different GTINs in the barcodes.</th>
<th>OK/NOK</th>
</tr>
</thead>
</table>

**How is the quality assurance performed?**

- a. Check that the product sample is not marked with more than one readable barcode containing different GTINs.
- b. Special check of consumer items that are packed together in another consumer item (i.e. multipack): If the barcodes of the including products are readable the result will be Warning.

#### Rule 735517 Barcode, consumer item (variable unit)

<table>
<thead>
<tr>
<th>735517</th>
<th>If the attribute Is trade item a variable unit (T0186) in the trade item information is Yes/True for a consumer item, the sample should have a</th>
<th>OK/NOK</th>
</tr>
</thead>
</table>
variable measure number in the barcode (i.e. start with 2X where X=0,1,2,3,4 or 5) and vice versa, if the sample has a variable measure number in the barcode the specified value for **Is trade item a variable unit (T0186)** in the trade item information should be Yes/True for a consumer item.

**How is the quality assurance performed?**

a. If both the specified values for Is trade item a variable unit (T0186) and Is trade item a consumer unit (T4037) are Yes/True in the trade item information, verify that the barcode has a variable weight unit prefix.

b. If the sample is a consumer item marked with a variable unit number in the barcode verify that Is trade item a variable unit (T0186) is specified with Yes/True in the trade item information.

Read more about variable weight unit on GS1 Sweden’s webpage: [http://www.gs1.se/sv/vara-standarder/identifiera/Viktvarunummer/](http://www.gs1.se/sv/vara-standarder/identifiera/Viktvarunummer/)

**Rule 735539 Barcode readability, non-consumer item (variable unit)**

| 735539 | If the attribute **Is trade item a variable unit (T0186)** in the trade item information is Yes/True for a non-consumer item, **Data carrier family type (T0187)** in the trade item information should be GS1-128 and the barcode on the sample must contain AI (310X). (NEW 2018-11-05, moved here from 735706) | OK/NOK |

**How is the quality assurance performed?**

a. If the specified value for Is trade item a variable unit (T0186) in the trade item information is Yes/True and Is trade item a consumer unit (T4037) in the trade item information is NO/False verify that GS1-128 is specified for Data carrier family type (T0187) in the trade item information.

b. Verify that the barcode contains AI (310X). (NEW 2018-11-05, moved here from 735706)

**Regel 735548 Barcode location and form, consumer item**

| 735548 | A barcode must be applied or printed on the sample for a consumer item and have a good placement. | OK/NOK/Warning |

**How is the quality assurance performed?**

a. If the attribute Is trade item a consumer unit (T4037) is Yes/True in the trade item information the sample and barcode is verified visually. If the barcode is missing the result will be NOK.

b. The placement of the barcode is verified and gives the result as below:

Result NOK:
- The barcode is printed or placed over the perforation, seams, pockets, corners or creases.
- The barcode is placed too close to a corner, glue joint or weld (and can not be read).
- The barcode is located so that the package or product colouring affects the readability.
- The barcode is covered by a tab, tape or such.
- Stretch-wrap, wrap or such, covering the barcode.
- The barcode is printed on a label that has folded itself.

Result Warning:
- Barcode is printed or placed on an uneven surface.
- Barcode is printed on a label where the glue has dried out.
Regel 735535 Barcode location and form, non-consumer item

<table>
<thead>
<tr>
<th>735535</th>
<th>The location and form of the barcode on a non-consumer item must follow GS1 General Specifications.</th>
<th>OK/NOK/Warning</th>
</tr>
</thead>
</table>

**How is the quality assurance performed?**

The sample is checked so that the placement of the barcode makes it easy to scan and that it’s sustainable, i.e. not placed in joints or has something that covers it up and interferes with the scanning of the barcode.

**Result NOK:**
- The barcode is printed or placed over the perforation, seams, pockets, corners or creases.
- The barcode is placed too close to a corner, glue joint or weld (and can not be read).
- The barcode is located so that the package or product colouring affects the readability.
- Streckkoden döljs av en flik, tejp eller liknande. The barcode is covered by a tab, tape or such.
- Stretch-wrap, wrap or such, covering the barcode.
- The barcode is printed on a label that has folded itself.
- The barcode is printed on a label that is attached with staples, and the staples are placed over the barcode or light margins.

**Result Warning:**
- Barcode is printed or placed on an uneven surface.
- Barcode is printed on a label where the glue has dried out.

For reusable crates "SRS", only loose labels are checked so this rule cannot be verified and the result will be N/A.

Regel 735541 Barcode, GS1-128

| 735541 | If a sample is a non-consumer item with data carrier type GS1-128 there must be parentheses around the AI (Application Identifiers) in the numbers below the barcode. | OK/NOK |

**How is the quality assurance performed?**

a. If the attribute Is trade item a consumer unit (T4037) is No/False in the trade item information and the sample is marked with a barcode GS1-128, check that there are parentheses around all the AI in the numbers below the barcode.

Regel 735543 Barcode height

| 735543 | The barcode height must be within the tolerances of GS1 General Specifications. | OK/Warning |

**How is the quality assurance performed?**

a. The barcode height is scanned with a verifying equipment, Axicon 6025-S and the received value is compared to the limit values according to [http://www.gs1.se/storleksguide/](http://www.gs1.se/storleksguide/). If the value is not within the limits (either too small or too large), the result will be Warning.
### Regel 735544 Barcode module width

| 735544 | The barcode module width (x-dimension) must be within the tolerances of GS1 General Specifications, and for data carrier type ITF-14, dimensions ratio (wide/narrow-ratio) should also be within the tolerances of GS1 General Specifications. | OK/Warning |

**How is the quality assurance performed?**

a. The barcode module width is read with verifying equipment, Axicon 6025-S and the received value is compared to the limit values according to [http://www.gs1.se/storleksguide/](http://www.gs1.se/storleksguide/). If the value is not within the limits (either too small or too large), the result will be Warning.

b. If the sample has ITF-14 barcode the dimensions are scanned and read and compared with limit values 2.25:1 till 3.0:1. If the value is not within the limits (either too small or too large), the result will be Warning.

### Regel 735545 Barcode light margin

| 735545 | The barcode's light margins must be within the tolerances of GS1 General Specifications | OK/Warning |

**How is the quality assurance performed?**

a. The barcode light margin is read with verifying equipment, Axicon 6025-S and the received value is compared to the limit values according to [http://www.gs1.se/storleksguide/](http://www.gs1.se/storleksguide/). If the value is not within the limits (too small), the result will be Warning.

### Regel 735708 GS1 Application identifier, variable unit

| 735708 | If the attribute **Is trade item a variable unit (T0186)** in the trade item information is Yes/True for a non-consumer item, and the sample is marked with a GS1-128 barcode that contains application identifier (10), (15) and/or (310x), the scanned numbers from the verifier equipment for batch number, best before date and/or net weight, should correspond with the numbers printed under the barcode. | OK/NOK |

**How is the quality assurance performed?**

a. Batch number, best before date and net weight read by verifying equipment Axicon 6025-S, should correspond exactly with the numbers under the barcode, i.e. each character should match.
<table>
<thead>
<tr>
<th>Rule</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Regel 735100 GS1 Application identifier (10) Batch number</strong></td>
<td>If the attribute <em>is trade item a variable unit (T0186)</em> in the trade item information is Yes/True for a non-consumer item, and the sample is marked with a GS1-128 barcode that contains application identifier (10) batch number, it should comply with GS1 General Specifications.</td>
</tr>
</tbody>
</table>

**How is the quality assurance performed?**

a. Visual check of the numbers below the barcode to verify that the batch number complies with the GS1 standard, for example, have a maximum of 20 characters. [Read more](#) |

<table>
<thead>
<tr>
<th>Rule</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Regel 735702 GS1 Application identifier (10) Batch number</strong></td>
<td>If the attribute <em>is trade item a variable unit (T0186)</em> in the trade item information is Yes/True for a non-consumer item, and the sample is marked with a GS1-128 barcode that contains application identifier (10) batch number, and the batch number is also stated on the sample, the value on the sample should correspond with the numbers under the barcode.</td>
</tr>
</tbody>
</table>

**How is the quality assurance performed?**

a. Visual check if the batch number is printed in plain text on the sample and if that is the case compared with characters (numbers/letters) below the barcode. The numbers/characters in the batch number must be corresponding and in the correct order. |
b. If the batch number in plain text contains punctuation marks e.g. hyphen (-) or period (.), they are excluded from the comparison. |
c. If there is no batch number written in plain text on the sample, it can’t be verified and the result is N/A. |

<table>
<thead>
<tr>
<th>Rule</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Regel 735704 GS1 Application identifier (15) Best Before date</strong></td>
<td>If the attribute <em>is trade item a variable unit (T0186)</em> in the trade item information is Yes/True for a non-consumer item, and the sample is marked with a GS1-128 barcode that contains application identifier (15) best before date, it should comply with GS1 General Specifications.</td>
</tr>
</tbody>
</table>

**How is the quality assurance performed?**

a. Visual check of the numbers below the barcode to verify that the application identifier complies with GS1 standard, i.e. is specified in the format ÅÅMMDD. |
b. If it can’t be determined with certainty what is the year and what is the day (e.g. 191119) it is assumed to be correct and the result will be OK. [Read more](#) |
Regel 735705 GS1 Application identifier (15) Best Before date

| 735705 | If the attribute **is trade item a variable unit (T0186)** in the trade item information is Yes/True for a non-consumer item, and the sample is marked with a GS1-128 barcode that contains application identifier (15) best before date, and the best before date is also stated on the sample, the value on the sample should correspond with the numbers under the barcode. | OK/NOK |

**How is the quality assurance performed?**

a. Visual check if the best before date is printed in plain text on the sample and, in that case, it is compared with the numbers below the barcode. The dates should correspond e.g. 180115 in the numbers below the barcode corresponds to, for example, 15 January 2018 and 15-01-2018 and 2018-01-15, but not 180116.

b. If it can’t be determined with certainty what is the year and what is the day, it is assumed that they correspond, as long as they are in the same order in both places e.g. 180119 corresponds to 18-01-19 (result OK) but not with 19-01-18 (result NOK).

c. If there is no best before date in plain text the result will be N/A.

Regel 735706 GS1 Application identifier (310X) Net weight

| 735706 | If the attribute **is trade item a variable unit (T0186)** in the trade item information is Yes/True for a non-consumer item, and the sample is marked with a GS1-128 barcode that contains application identifier (310x) net weight, it should comply with GS1 General Specifications. | OK/NOK |

**How is the quality assurance performed?**

a. Check the barcode number visually to verify that the application identifier complies with GS1 standard, e.g. that the number of decimals matches. Read more

Regel 735707 GS1 Application identifier (310X) Net weight

| 735707 | If the attribute **is trade item a variable unit (T0186)** in the trade item information is Yes/True for a non-consumer item, and the sample is marked with a GS1-128 barcode that contains application identifier (310x) net weight, and the net weight is also stated on the sample, the value on the sample should correspond with the numbers under the barcode. | OK/NOK/Warning |

**How is the quality assurance performed?**

a. Verify visually the net weight in plain text on the sample and compare with the numbers under the barcode.

b. Values in different units are considered consistent e.g. AI (3103) 01846 in bar code and 1,846 kg in plain text gives the result OK.

c. Values with different numbers of decimals, ex. AI (3103) 01846 in bar code and 1.85 kg in plain text gives the result Warning, since it is recommended to use the same accuracy on all values on the label.

d. Values with different numbers of decimals where zeros are used to fill in, e.g. AI (3103) 01800 in bar code and 1.8 kg in plain text gives the result OK.

e. If there is no net weight in plain text it can’t be verified (result N / A).
3 Quality assurance rules for Food & Beverage information

Rule 735001 Number of servings per package (T4092)

<table>
<thead>
<tr>
<th>735001</th>
<th>If the sample is marked with number of servings and a value is specified for Number of servings per package (T4092) in the trade item information, they should correspond.</th>
<th>OK/NOK</th>
</tr>
</thead>
</table>

How is the quality assurance performed?

a. If the sample is marked with number of servings and there is a value specified for Number of servings per package (T4092) in the trade item information, verify that they aren’t contradicting. For example, "10 Port" on the sample corresponds to "10 Portions", "10 psc" or "10" in the trade item information. However, "10 Port" on the sample does not match "12", "10.5" or "10 grams" in the trade item information.
b. If the sample is marked with number of servings and nothing is specified in the trade item information, the result will be OK.
c. If the sample is not marked with number of servings but there is a specified value in Number of Servings per package (T4092) in the trade item information, the result is N/A (cannot be verified)

Rule 735002 Number of smallest units per package (T4036)

<table>
<thead>
<tr>
<th>735002</th>
<th>If the sample is marked with number of smallest unit and a value is specified for Number of smallest units per package (T4036) in the trade item information, they should correspond.</th>
<th>OK/NOK</th>
</tr>
</thead>
</table>

How is the quality assurance performed?

a. If the sample is marked with the number of smallest units and there is a value specified for Number of smallest units per package (T4036) in the trade item, verify that they aren’t contradicting. For example, "10 sausages" on the sample is consistent with "10", "10 psc" or "10 sausages" in the trade item information. However, "10 sausages" do not match the "12", "10.5" or "10 grams" in the trade item information.
b. If the sample is marked with number of smallest unit and nothing is specified in the trade item information, the result will be OK.
c. If the sample is not marked with number of servings but there is a specified value in Number of smallest units per package (T4036) in the trade item information, the result is N/A (cannot be verified)

Rule 735003 Maximum number of smallest units per package (T4093)

<table>
<thead>
<tr>
<th>735003</th>
<th>If the sample is marked with number of smallest unit and a value is specified for Maximum number of smallest units per package (T4093) in the trade item information, they should correspond.</th>
<th>OK/NOK</th>
</tr>
</thead>
</table>

How is the quality assurance performed?

a. If the sample is marked with the maximum number of smallest units and there is a value specified for Maximum number of smallest unit per package (T4093) in the trade item, verify that they aren’t contradicting. For example, "10 sausages" on the sample is consistent with "10", "10 psc" or "10 sausages" in the trade item information. However, "10 sausages" do not match the "12", "10.5" or "10 grams" in the trade item information.
b. If the sample is marked with number of smallest unit and nothing is specified in the trade item information, the result will be OK.
c. If the sample is not marked with number of servings but there is a specified value in Maximum number of smallest units per package (T4093) in the trade item information, the result is N/A (cannot be verified)
Quality assurance rules for Trade item information and Food & Beverage information
Validoo Q-lab

**Rule 735004 Ingredient statement (T4088)**

<table>
<thead>
<tr>
<th>735004</th>
<th>If there is an ingredient statement on the sample, the exact same text should be specified for <strong>Ingredient statement (T4088)</strong> in the trade item information.</th>
<th>OK/NOK/Warning</th>
</tr>
</thead>
</table>

The ingredient statements for food constitute important information for buyers and consumers. The digital ingredient statement in the trade item information is often used for product pages on websites and in e-commerce. It is therefore critical that the digital information corresponds exactly to the label on the package. In Validoo Q Lab, we are thorough to make sure that they correspond and check letter by letter. We do so because we know that even small errors can lead to major consequences. Think of Validoo Q-Lab as your extra eyes to help proof-read the digital information!

**How is the quality assurance performed?**

a. If the sample is marked with an ingredient statement, verify that it is filled in in **Ingredient statement (T4088)** in the trade item information. If there isn’t an ingredient statement filled in in the trade item information the result will be NOK.

b. If the sample is missing an ingredient statement and there isn’t an ingredient statement specified in the trade item information the result will be OK. No assessment is made as to whether the product should be labelled with ingredients. (NEW 2018-11-05)

c. If there isn’t an ingredient statement on the sample but there is one specified in the trade item information the result will be N/A (NEW 2018-11-05)

  i. Exception: if there are obviously incorrect ingredients specified in the trade item information, the result will be NOK. For example: "Ingredients: Coffee Beans (100%)" in the trade item information for a sample containing eggs gives the result NOK.

  d. Consistency between sample and trade item information is checked letter by letter and in case of discrepancy on one or more letters, the result will be NOK, for example:

  i. "apelsinjuice" on the sample and "apelsinjos" or "färskpressad apelsinjuice" or "apelsin juice" or "apeslinjuice" in the trade item information, will all give the result NOK.

  ii. Exception: If there is an obvious misspelling on the sample (which does not change the meaning of the word), but correct spelling is specified in the trade item information, the result will be Warning. For example, "orange juic" on the sample but "orange juice" in the trade item information gives the result Warning. On the contrary, a misspelling in the trade item information (but correct spelling on the sample) always results in NOK. Incorrectly spelled words on both sample and information gives result OK since they are in accordance.

  e. Commas, hyphens, brackets and spaces are checked in the cases where they affect the meaning of the ingredient statement, for example:

  i. "tomatsås (tomat, salt, vitlök)" and "tomatsås, tomat, salt, vitlök" gives the result NOK

  ii. "tomatsås (tomat, salt, vitlök)" and "tomatsås (tomat, salt, vitlök)" gives the result OK

  iii. "tomater (20%), salt" och "tomater 20%, salt" gives the result OK

  f. A word marked on the sample (e.g. bold, underlined, capitalized or italicized) that refers to an allergen in the ingredient statement should be equal to the capital letters in the trade item information. The same words or parts of words marked on the sample must be marked in capitals in the trade item information, for example:

  i. "VETEMJÖL" and "VETEmjöl" gives the result NOK

  ii. Sample="vetemjöl" and trade item information ="VETEMJÖL" gives the result OK

  g. An allergen that is not marked in either the ingredient statement on the sample or in the trade item information gives the result Warning, even though they are in accordance. (NEW 2018-11-05)

  h. If there somewhere on the sample is information that the product "may contain traces of x" (where x may be an allergen or not), this text must also be specified for T4088 in the trade item information, regardless of whether the "trace of" statement is placed in direct...
connection to the ingredient statement on the sample or not. The absence of the “trace of” text in the trade item information will give the result NOK. The statement in the trade information is verified according to d.-f. (NEW 2018-11-05)

i. If the ingredient statement on the sample is specified with mixed languages such as Swedish/Norwegian/Danish, verify that all languages are also specified in the trade item information. If only Swedish is specified in the trade item information, the result will be NOK.

j. If ingredient statements in different languages are listed separately on the sample e.g. first in Swedish and then in French, verify that only the Swedish ingredient statement is specified in the trade item information. If more languages than Swedish are specified in the trade item information, the result will be NOK.

k. If any of the following is stated on the sample, in or directly after the ingredient statement, the result will be OK whether it is specified in the trade item information or not. However, if it is specified in the trade item information, it must correspond exactly with the sample.

i. The word “Ingridiens(er)” to mark the start of the list
ii. Country of origin
iii. Catch zone for fish
iv. Relationship between collagen and meat protein, specification of meat or fat content

l. Text that is not a listing of ingredients but is placed in direct connection with the ingredient statement and which may be considered as part of it, can be specified in the trade item information and is given the result OK, if it meets the criteria in d. to e. Examples of what can be considered as part of the ingredient statement are: mineral content for carbonated water, explanatory text on accredited marking with reference to ingredients, and how many percent of different ingredients the product contains. However, if such text is not specified in the trade item information, the result will still be OK (assuming everything else is OK).

m. If any word in the ingredient statement is marked with asterix (*) and the asterix is also written in the trade item information, the accompanying explanation must also be written in the trade item information and they must correspond exactly. If both the asterix and the explanation are omitted from the trade item information, the result will also be OK.

n. Other text than described in k.-m. may not be specified in the trade item information even if it is printed in direct connection to the ingredient statement on the sample. Example: The following text in the trade information: “Ingredients: tomato, salt, garlic. Our tasty sauce contains nothing more than this!” the result will be NOK even though it corresponds with the sample since the sentence “Our tasty sauce ... ” is not part of the ingredient statement.

o. If there is text specified in the trade item information, which is partially or totally absent on the sample, the result will be NOK. If the text on the sample is partially or totally unreadable, it is assessed as if the text is missing and the result will be NOK, if it is specified in the trade item information.

Rule 735101 Allergen type (T4078)

| 735101 | For all allergens (or products thereof) stated on the sample, either in the ingredient statement, product name or in a “Trace of”-statement, the matching code value should be selected for Allergen type (T4078) in the trade item information. | OK/NOK |

How is the quality assurance performed?

a. If the sample is marked with one or more allergens, verify that all allergens are specified with the correct code value (i.e. the code value used in Sweden according to code list (T4078)) for Allergen Type (T4078) in the trade item information.

b. If the sample is not marked with allergens, verify that there isn’t anything specified for Allergen Type (T4078) in the trade item information. If code values not used in Sweden have been entered, they are not checked and the result will be N/A

c. The following E-numbers contain sulphur dioxide/sulphite and if they are specified in the ingredient statement on the sample, the code value for sulphur dioxide/sulphite must be specified in the trade item information: E220, E221, E222, E223, E224, E226, E227, E228.
d. If the product contains sulphur dioxide/sulphite but less than 10 ppm, it’s not required to specify code value for sulphur dioxide/sulphite, and in this case, the result will be OK both for specified and not specified code value. If, on the other hand, sulphur dioxide/sulphite is declared on the sample, but without specification of the amount on the sample or in the accompanying information (e.g. on the delivery note), the result will be NOK if the code value is not specified.

e. Examples of non-allergenic ingredients are wheat grass and refined soybean oil (if it is stated that it is refined) and the result will be OK if they are not marked.

f. If the code value for Free from gluten is specified for Packaging marked free from (T4031) in the trade item information, the code value Cereal containing gluten should not be specified for Allergen Type (T4078) and gives the result OK even if there is a marked ingredient in the ingredient statement (e.g. WHEAT starch) which would normally motivate an allergen code.

Rule 735014 Level of containment (T4079) (for allergen)

<table>
<thead>
<tr>
<th>Rule</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>735014</td>
<td>For each allergen specified in Allergen type (T4078) in the trade item information, Level of containment (T4079) should be specified and correspond with the sample.</td>
</tr>
</tbody>
</table>

How is the quality assurance performed?

a. The content level of each allergen in the trade item information is compared to what is stated on the sample.

b. If code value "Contains" is specified, the allergen should be listed in the ingredient statement or otherwise stated that the food contains the allergen, e.g. in the description.

c. If the code value "Can contain" is specified, there should be corresponding text on the sample e.g. "trace off", "may contain traces of ...". If such text is missing on the sample, the result will be NOK.

Rule 735005 Preparation state (T4069)

<table>
<thead>
<tr>
<th>Rule</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>735005</td>
<td>Preparation state (T4069) in the trade item information should correspond with the specified value on the sample for the Nutritional values.</td>
</tr>
</tbody>
</table>

How is the quality assurance performed?

a. If the sample is marked with a nutritional table, verify that the right code value is selected.

i. For products that are "ready" when sold (e.g. sausage, bread, milk, pizza, potatoes) the nutrition table usually refers to "Unprepared" product, and this should be selected for Preparation State (T4079) in the trade item information.

ii. For products that are to be mixed with water or otherwise prepared prior to consumption, the nutritional table usually refers to "Prepared" product and this should be selected for Preparation State (T4079) in the trade item information.

b. If the sample is marked with more than one nutritional table and with different preparation states, verify that the correct preparation state is specified for the correct nutritional table in the trade item information, e.g.

i. Mashed potato powder: for the powder’s nutritional values the code value "Unprepared" is specified, while the nutritional values for the ready mashed potatoes are specified with "Prepared".

ii. Lemonade: for the undiluted lemonade’s nutritional values the code value "Unprepared" is specified, while the nutritional values for the diluted lemonade are specified with "Prepared".
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Rule 735006 Daily value intake reference (T4070)

<table>
<thead>
<tr>
<th>Rule 735006</th>
<th>If there is a daily value intake (e.g. &quot;of daily reference intake&quot;) for Nutritional values stated on the sample, the exact same text should be specified for Daily value intake reference (T4070) in the trade item information.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OK/NOK/Warning</td>
<td></td>
</tr>
</tbody>
</table>

How is the quality assurance performed?

a. If the sample is marked with daily value intake reference and there is a value specified for Daily value intake reference (T4070) in the trade item information, verify that they correspond, letter by letter. Example: "DRI" on the sample is not in accordance with "RDI" or "RI" in the trade item information and the result will be NOK.

b. Correspondence applies to punctuation marks and spaces if they affect the wording, e.g. "Daily reference intake" and "Daily reference-intake" gives the result NOK, but double spacing gives the results OK.

c. Exceptions to a. and b.

   a. Asterix marked on the sample doesn’t have to be included in the trade item information, e.g. "of DRI" on the sample gives the results OK for both "of DRI" and "of DRI".

   b. If there is an explanation for an abbreviation on the sample e.g. "of DRI (Daily Reference intake)" the result will be OK for the entire string of text but also for "of DRI" or "DRI".

   c. If the intake recommendation is stated on the sample with multiple languages (e.g. Av daglig referanseinntak/Daily reference intake), verify that the entire text or alternatively the Swedish part of the text is corresponding with the trade item information.

d. It is not verified if upper and lower case letters correspond, e.g. "Daily reference intake" and "daily reference intake" both give the result OK. If the value in the trade item information appears to be obviously incorrect in terms of the upper case/lower case letters, the result will be Warning, e.g. "Daily reference intake" and "DaiLY REFERENCE INTAKE".

e. If there is no intake recommendation stated on the sample, but there is a value specified for Daily value intake reference (T4070) in the trade item information, the result will be NOK, since it’s not corresponding.

Rule 735009 Nutrient type (T4073)

<table>
<thead>
<tr>
<th>Rule 735009</th>
<th>If there is a certain nutrient stated on the sample the matching code value should be specified for Nutrient type (T4073) in the trade item information.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OK/NOK</td>
<td></td>
</tr>
</tbody>
</table>

How is the quality assurance performed?

a. Verify that each nutrient type that is stated on sample has a corresponding code value specified in the trade item information. Even if a nutrient type on the sample has the value zero (or empty) it should be specified in the trade item information with the value zero.

b. Verify that all code values that are specified in the trade item information in a certain nutritional table also is stated on the sample. If there are more nutrient types in the trade item information or even more nutritional tables then on the sample the result will be N/A (cannot be verified).

c. If there is more than one nutritional table on the sample but only one specified in the trade item information the result will be OK provided the trade item information is correct.

d. Verify that the correct code value is selected for each nutrient type on the sample. Some code values are similar, e.g. "Salt" on the sample corresponds to SALTEQ (not NACL or other).
Rule 735010 Quantity contained (T4074)

| 735010 | If there is a certain nutrient quantity stated on the sample the exact same value should be specified for Quantity contained (4074) in the trade item information. | OK/NOK |

How is the quality assurance performed?

a. Verify that each nutrient quantity stated on the sample has a corresponding value specified in the trade item information. Even if a nutrient type on the sample has the value zero (or empty) it should be specified in the trade item information with the value zero.

b. Verify that all nutrient quantities that are specified in the trade item information in a certain nutritional table also is stated on the sample. If there are more nutrient types in the trade item information or even more nutritional tables then on the sample the result will be N/A (cannot be verified).

c. Nutrient quantity in the trade item information should correspond digit to digit compared to the sample if the same accuracy is used in both places, e.g. "14.36" does not match "14.40" and the result will be NOK.

d. To mark decimals, always use decimal point in the trade item information. The decimal point can match a decimal comma on the sample, e.g. "14.0" and "14,0" correspond and the result will be OK.

e. If higher accuracy is used in the trade item information and if zeroes are used to fill out, the result will be OK. For example: "14" on sample corresponds to "14.0", "14.00" in the trade item information and the result will be OK. On the contrary, higher accuracy on the sample (e.g. "14.0" or "14.2") than in the trade item information ("14") the result will be NOK.

e. If the nutrient quantity stated on the sample for Energy kJ is less than Energy kcal (but consistent with the trade item information), the result will be Warning with a suggestion to review the product sample’s labelling. (NEW 2018-11-05) If the sample is incorrect but the values in the trade item information are reversed (and probably "correct"), the result will be NOK due to not in accordance with sample.

Rule 735011 Measurement unit (T3780) (for quantity contained)

| 735011 | If measurement unit for nutrient quantity is stated on the sample the same code value should be specified for Measurement unit (T3780) connected to Quantity contained (4074) in the trade item information. | OK/NOK |

How is the quality assurance performed?

a. Verify that each nutrient quantity stated on the sample has the corresponding measurement unit specified in the trade item information. Even if a nutrient type on the sample has the quantity zero (or empty), it should be specified in the trade item information with the value zero and the correct measurement unit.

b. Verify that all nutritional quantities specified in the trade item information for a certain nutritional table also are stated on the sample. If there are more nutrient types in the trade item information or even more nutritional tables then on the sample the result will be N/A (cannot be verified).

c. In some cases, there is no measurement unit stated in direct relation to the nutrient quantity on the sample, as "1.4 g". The measurement unit will then be read from the header, table head or such. For example: The heading "Nutritional values" g/100g "is stated on the sample and unit GRM (gram) in the trade item information gives the result OK, even though it only states 14 in the table on the sample.
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Rule 735016 Measurement precision (T4075) (for quantity contained)

<table>
<thead>
<tr>
<th>Rule 735016</th>
<th>The specified Measurement precision (T4075) for Quantity contained (4074) in the trade item information should correspond with the marking on the sample for each nutrient value.</th>
</tr>
</thead>
</table>

How is the quality assurance performed?

a. If there is a specification on the sample in connection with a nutrient quantity, e.g. “<” or “less then” the code value (LESS_THAN) should be selected in the trade item information.
b. If specification according to a. is missing from the sample the code value (APPROXIMATELY) should be selected in the trade item information.

Rule 735012 Daily value intake percent (T4076)

<table>
<thead>
<tr>
<th>Rule 735012</th>
<th>If Daily value intake is stated on the sample a corresponding value should be specified for Daily value intake percent (T4076) in the trade item information.</th>
</tr>
</thead>
</table>

How is the quality assurance performed?

a. Verify that every daily value intake reference stated on the sample has a corresponding value specified in the trade item information.
b. Verify that all nutrient quantities that are specified in the trade item information in a certain nutritional table also is stated on the sample. If there are more nutrient types in the trade item information or even more nutritional tables then on the sample the result will be N/A (cannot be verified).
c. If higher accuracy is used in the trade item information and only zeroes are used to fill out, the result will be OK. For example: “14” on sample corresponds to “14.0”, “14.00” in the trade item information and the result will be OK. But “14” on the sample and “14.2” or “14.7” in the trade item information gives the result NOK. A higher accuracy on the sample (e.g. “14.0” or “14.2”) than in the trade item information (“14”) gives the result NOK.
d. To mark decimals, always use decimal point in the trade item information. The decimal point can match a decimal comma on the sample, e.g. “14.0” and “14,0” correspond and the result will be OK.

c. If the nutrient base quantity on the sample is specified in grams or millilitre, the specified value in the trade item information must match digit to digit. Rounding or extra decimals are not considered to be corresponding. For example: “per portion (372 g)” on the sample and “370” or “372.0” in the trade item information gives the result NOK.
d. If the nutrient base quantity on the sample is specified in a measurement unit other than gram or millilitre, they should be correctly converted to grams or millilitre in the trade item information. For example: “per can (33 cl)” should be matched by “330” in the trade item information. Specified value “33” or “33,0” or “330.0” will give the result NOK.
Quality assurance rules for Trade item information and Food & Beverage information
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Rule 735008 Measurement unit (T3780) (for nutrient basis quantity)

<table>
<thead>
<tr>
<th>Rule 735008</th>
<th>Description</th>
<th>OK/NOK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement unit for nutrient basis quantity on the sample should correspond with a specified value for <strong>Measurement unit (T3780)</strong> connected to <strong>Nutrient basis quantity (T3824)</strong> in the trade item information.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**How is the quality assurance performed?**

b. Verify that the base quantity of each nutritional table stated on the sample and in the information has the correct measurement unit specified in the trade item information. If the nutrient base quantity is "per 100g" on the sample, measurement unit "GRM" (gram) should be selected.

c. If the nutrient base quantity on the sample is specified in a measurement unit other than gram or millilitre, they should be correctly converted to grams or millilitre in the trade item information. For example: "per can (33 cl)" should be matched by "MLT" in the trade item information.
4 Quality assurance rules for components

These rules are used for products that are composed of several child items that are not sold separately and therefore do not have unique GTINs, e.g. a Pizza Kit with dough and sauce, or a sausage tray with three different flavours of sausages in one package. In order to use the component attributes in the trade item information, the product must be labelled with separate ingredient statements and nutrient tables for each included component.

Rule 735709 Component description (T3835)

<table>
<thead>
<tr>
<th>735709</th>
<th>The Component description (T3835) must be clear enough to enable the identification of the physical component in the sample.</th>
<th>OK/NOK</th>
</tr>
</thead>
</table>

**How is the quality assurance performed?**

a. Verify that it is possible to understand without effort what component in the sample is referred, based on the component description given in the trade item information. For example: Incomprehensive text strings such as “ABX39” in the trade item information give the result NOK, while “Tomato Sauce” or “Pizza Dough” will give the result OK.

The following rules also apply to components and have the same criteria at component level as for consumer items. For a complete description of the following rules see Chapter 3 of this document.

- Rule 735509 Net content (T0082) (Component level)
- Rule 735004 Ingredient statement (T4088) (Component level)
- Rule 735005 Preparation state (T4069) (Component level)
- Rule 735006 Daily value intake reference (T4070) (Component level)
- Rule 735009 Nutrient type (T4073) (Component level)
- Rule 735010 Quantity contained (T4074) (Component level)
- Rule 735011 Measurement unit (T3780) (for quantity contained) (Component level)
- Rule 735016 Measurement precision (T4075) (for quantity contained) (Component level)
- Rule 735012 Daily value intake percent (T4076) (Component level)
- Rule 735102 Nutrient basis quantity (T3824) (Component level)
- Rule 735008 Measurement unit (T3780) (for nutrient basis quantity) (Component level)
Appendix 1

The table shows which rules are checked for different product sample types. If possible, a production sample is preferred when quality assuring, i.e. a real product as it will look when you sell it. If there is no finished product produced yet, you can use the sample type "Prototype". If the new product is a variant of an existing product that already is quality assured (e.g. a new flavour in the same package), the sample type "Variant" can be used. For more information about sample types and what needs to be submitted, visit www.validoo.se.

Explanation of symbols in the table:
- X = quality assured against physical item
- Xx = quality assured against print original
- T = value read from GTIN specified for T3793
- = Not included
(-) = Not included in overall results

<table>
<thead>
<tr>
<th>RULE ID</th>
<th>SAMPLE TYPE</th>
<th>PACKAGING LEVEL</th>
<th>ATTRIBUTE NUMBER</th>
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<th>NON CONSUMER</th>
<th>CONSUMER</th>
<th>NON CONSUMER</th>
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<th>NON CONSUMER</th>
<th>CONSUMER</th>
<th>NON CONSUMER</th>
<th>CONSUMER</th>
<th>NON CONSUMER</th>
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<tbody>
<tr>
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<td>Trade item date on packaging format name (T3362)</td>
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<td>X / Xx</td>
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<td>Child trade item, GTIN (T2045)</td>
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</table>
## Quality assurance rules for Trade item information and Food & Beverage information

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<table>
<thead>
<tr>
<th>RULE ID</th>
<th>SAMPLE TYPE</th>
<th>PACKAGING LEVEL</th>
<th>ATTRIBUTE NUMBER</th>
<th>Production sample</th>
<th>Variant*</th>
<th>Existing Identical Item*</th>
<th>Prototype*</th>
</tr>
</thead>
<tbody>
<tr>
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<td>CONSUMER</td>
<td>NON CONSUMER</td>
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<td>CONSUMER</td>
<td>CONSUMER</td>
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<td>Packaging marked diet allergen (T4028)</td>
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<td>Packaging marked free from (T4031)</td>
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<tr>
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<td>Measurement unit (T3780) connected to (T0082)</td>
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Date: 2018-12-05
Version: S
## Quality assurance rules for Trade item information and Food & Beverage information

### Validoo Q-lab

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<th>RULE ID</th>
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<th>Production sample</th>
<th>Variant*</th>
<th>Existing Identical Item*</th>
<th>Prototype*</th>
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### Explanation of symbols in the table:

- **X** = quality assured against physical item
- **Xx** = quality assured against print original
- **T** = value read from GTIN specified for T3793
- **-** = Not included
- **()** = Not included in overall results
Appendix 2

The table shows which markings are verified in rule 735700 with regards to Packaging marked label accreditation (T3777) in the trade item information.
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<td>Certifierad enligt The Aquaculture Stewardship Council (ASC)</td>
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