MICROS Materials Control

Nutrients

Product Version **8.8.10.9.1515**

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Introduction:

Nutritional information:

Nutrients are the basic components of all food and beverage item we use in our business. In order to analyze our recipes we integrated the nutrition interfaces into Materials Control. Through simple allocation of correspondent items from the correspondent catalogue table it is possible to have a nutritional analysis of your recipes.
Core of these catalogues is the calculation of missing analysis values, the calculation of prepared food and the calculation of prescriptions. In order to be able to work here with simple algorithms, a structuring was made after biologically similar groups of food.

What is BLS?

The abbreviation BLS stands for „Bundeslebensmittelschlüssel“. This is the German standard source for nutritional ingredients of food and beverage items. It contains the most important goods (fresh food, dishes, prepared food) and nearly all kind of beverages.

What is USDA?

The abbreviation USDA stands for „United States Department of Agriculture“. This is the US standard source for nutritional ingredients of food and beverage items. It contains the most important goods (fresh food, dishes, prepared food) and nearly all kind of beverages.

What is AUSNUT?

The abbreviation AUSNUT stands for „Australian Food and Nutrition Database“. This is the Australian standard source for nutritional ingredients of food and beverage items. It contains the most important goods (fresh food, dishes, prepared food) and nearly all kind of beverages.

What is NEVO?

The term NEVO stands for the Dutch Food Composition Database. This is the Dutch standard source for nutritional ingredients of food and beverage items. It contains the most important goods (fresh food, dishes, prepared food) and nearly all kind of beverages.

What is CoFIDS?

The Food Standards Agency (FSA) maintains the UK Nutrient Databank, which contains extensive information on the nutrient content of foods commonly consumed in the UK. A range of books based on information from the databank and containing nutrient

composition data have been produced. These books comprise the McCance and Widdowson's *The Composition of Foods* series (CoF) which provide extensive data for different food groups. Because of the way in which the series has evolved there are often two or more separate entries for a particular food, each entry including different nutrients and/or different values. A dataset containing a single entry for each food has been produced by examining each of the multiple entries and using the values which are most appropriate. The UK Nutrient Databank does not contain values for all nutrients for all foods and therefore the CoF IDS will not have a value for every nutrient for every food. Foods calculated by recipe or calculated based on another food (e.g. foods weighed with waste) have been recalculated to include the most recent data for ingredients and the dataset therefore contains some newly created codes which have not previously been published.

Pre-requisites:

Materials Control must be installed in Version 8.7.20.49.1423 or higher. This version contains the basic functionality. Some of the features shown below are available in higher versions only.

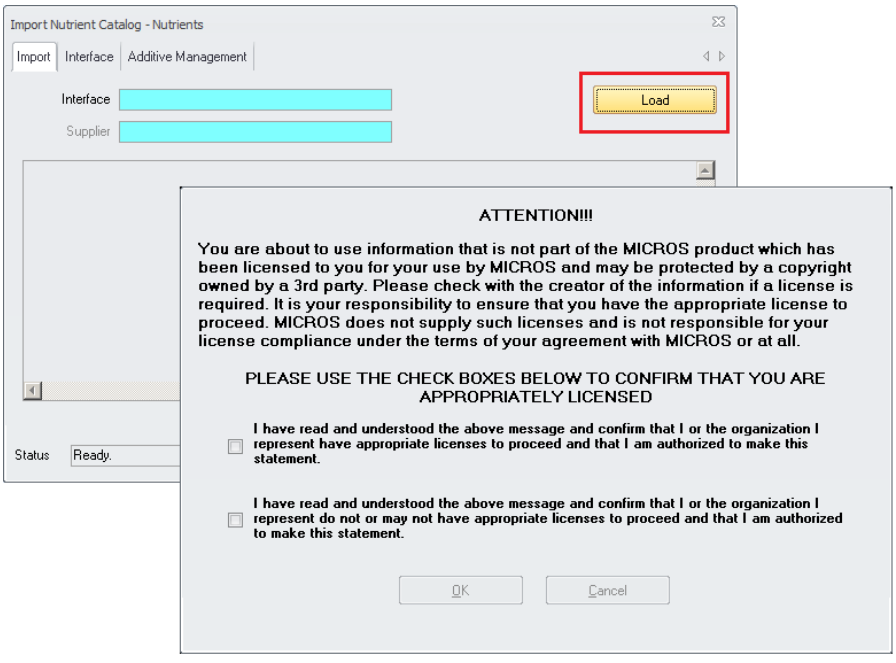
The user must have proper rights to access the function to import the nutritional information. The system supports one catalogues at the same time only.

Catalogue Licensing:

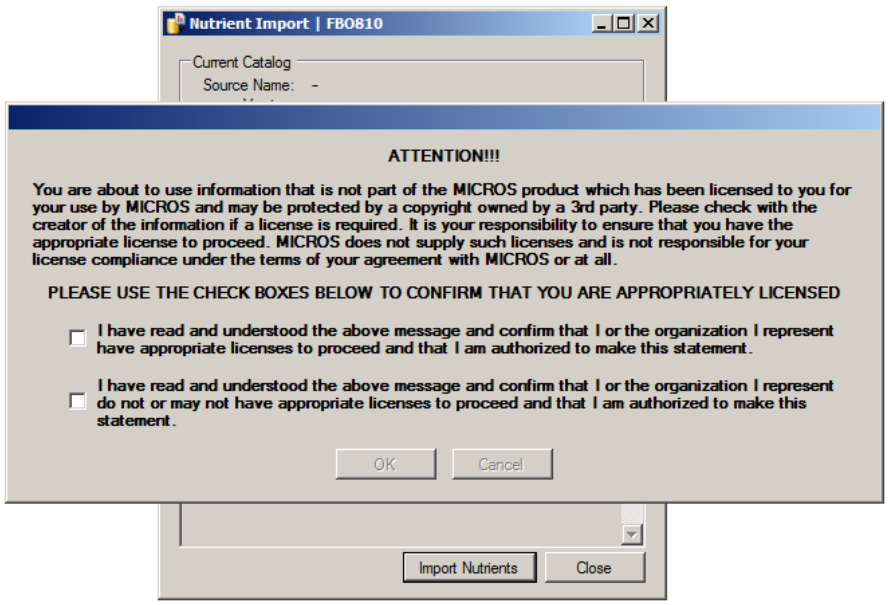
Due to copy rights and ownership restrictions of the catalogues, it might be required that the customer (Hotel, Restaurant, etc.) has to purchase a license for the used catalogue at the local authority.
Since the handling is different in each country, MICROS **does not deliver** such licenses with the application.
Before using a catalog in Materials Control, the customer needs to confirm that he owns potentially required licenses for the catalog!

When using the first time any function related to Nutrients …

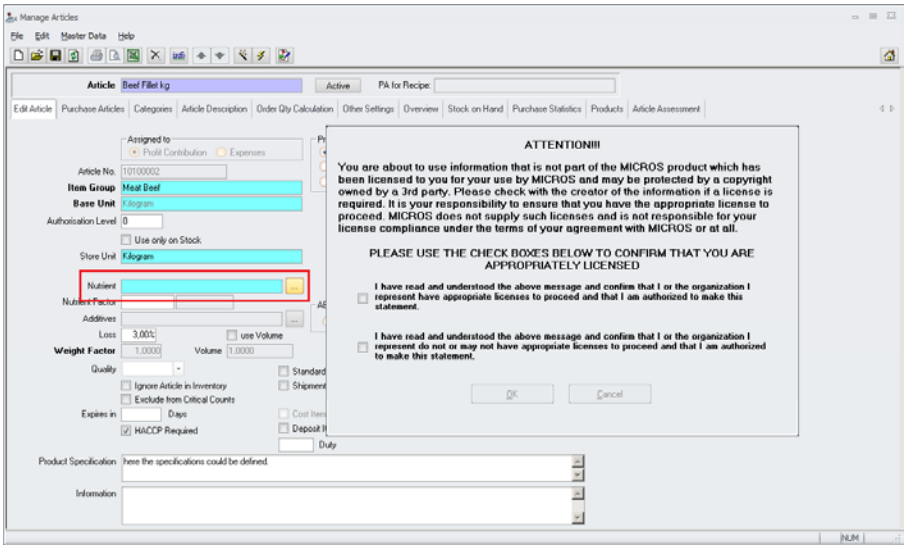
- … importing Nutrients using the thick client module



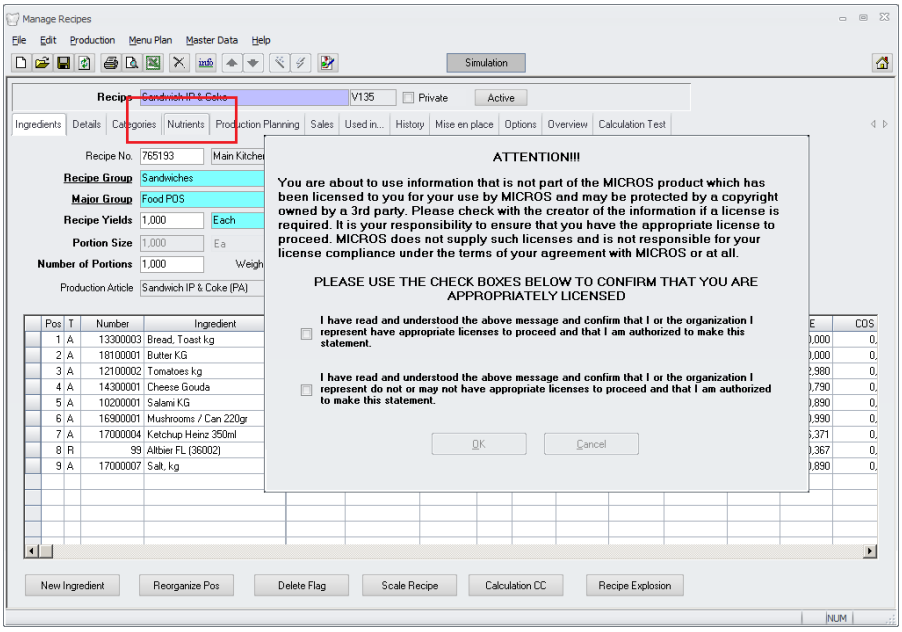
- … importing Nutrients using the stand-alone tool



- … adding Nutrients to Articles



- … showing Nutrients in Recipes

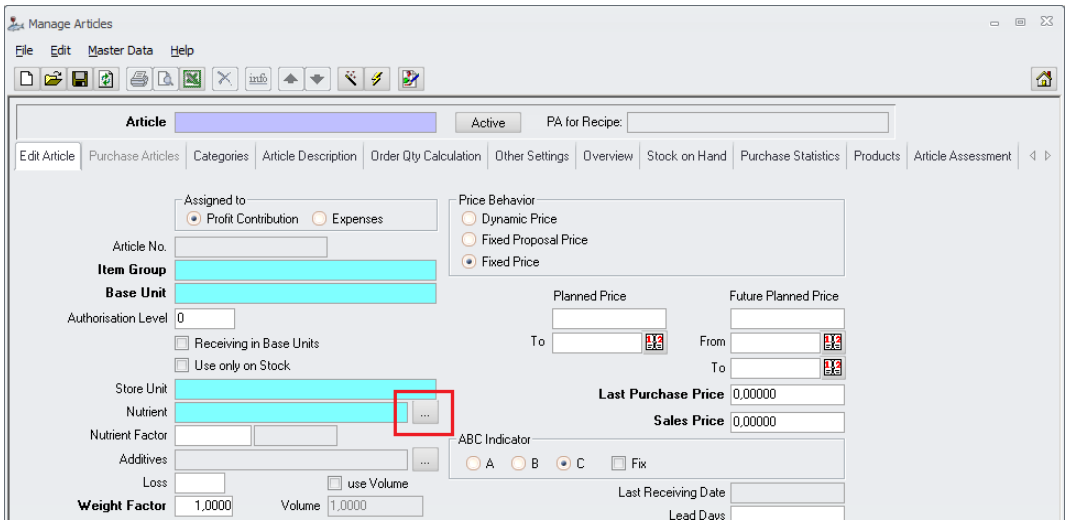


… the application now shows a dialog where the user needs to confirm that he understood that Materials Control does not contain any Nutrient Catalogue licenses and he has to take care about the potentially required licenses for the used catalogue.

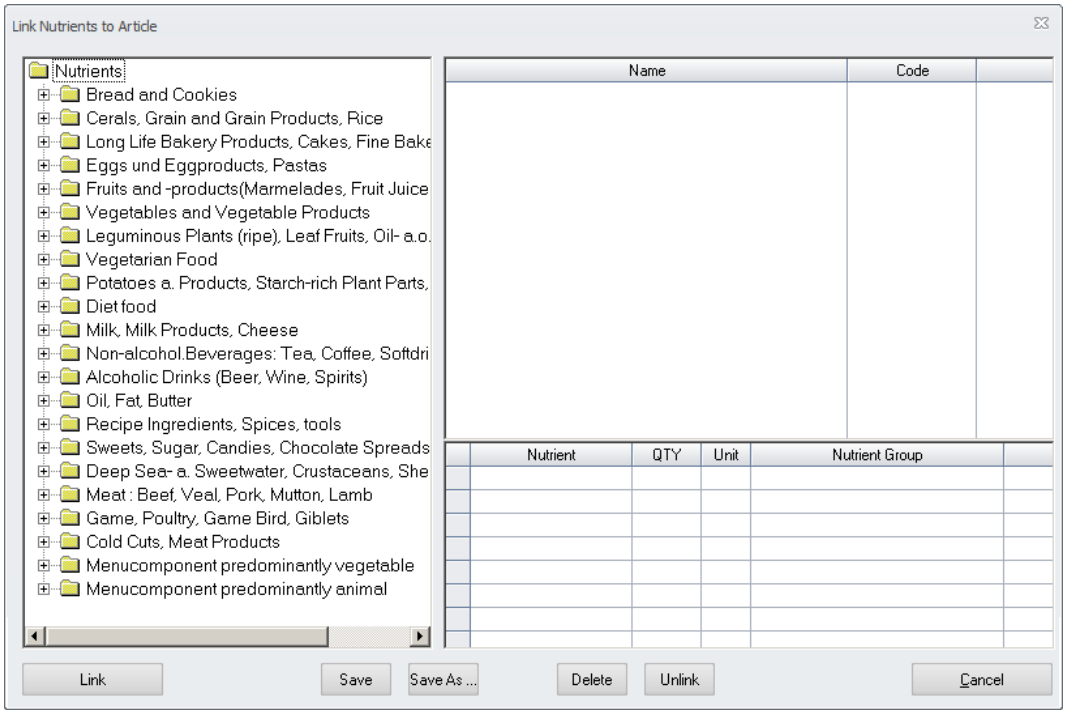
The positive confirmation will be stored in the database. Once the application could read this, the dialog will no longer be shown.

Check for current loaded catalogues:

Please ensure that no nutritional information is already imported in your application. How to check this?
Go to Master Data > Articles > click on the button marked below:



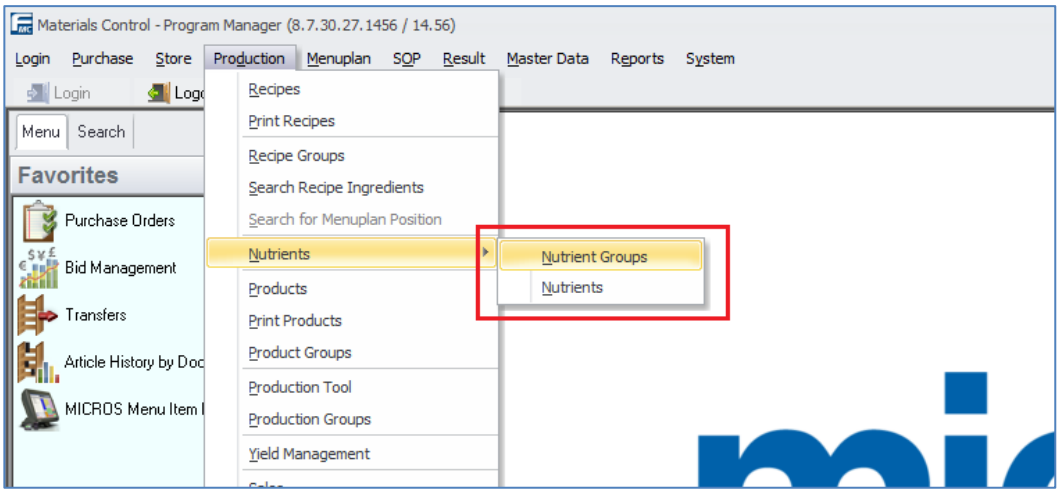
On click the application starts to search for nutritional information in the database.



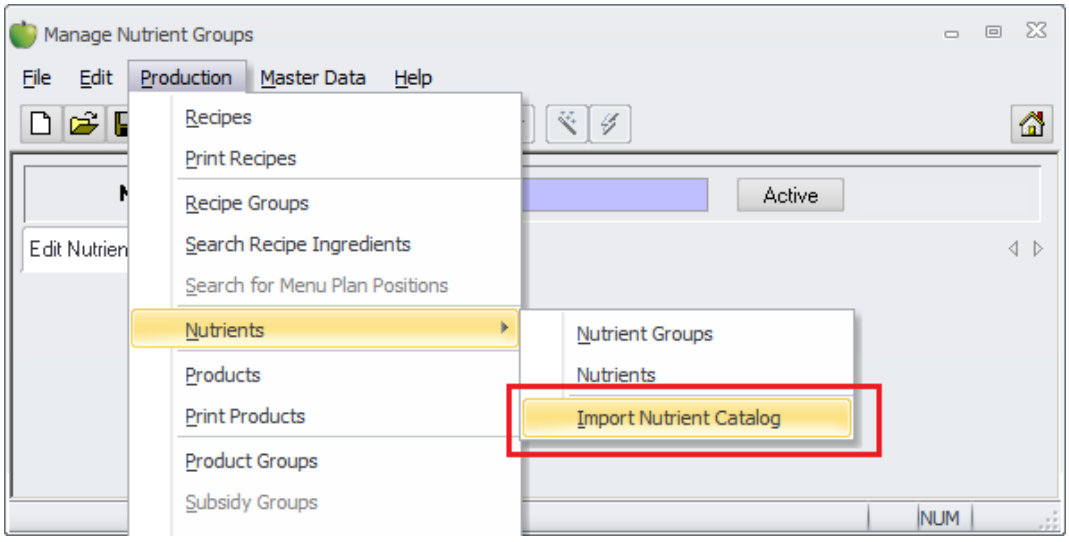
If the screen shows the groups same or similar as above, nutritional information is already available in the system.

If required this can be unloaded as follows:

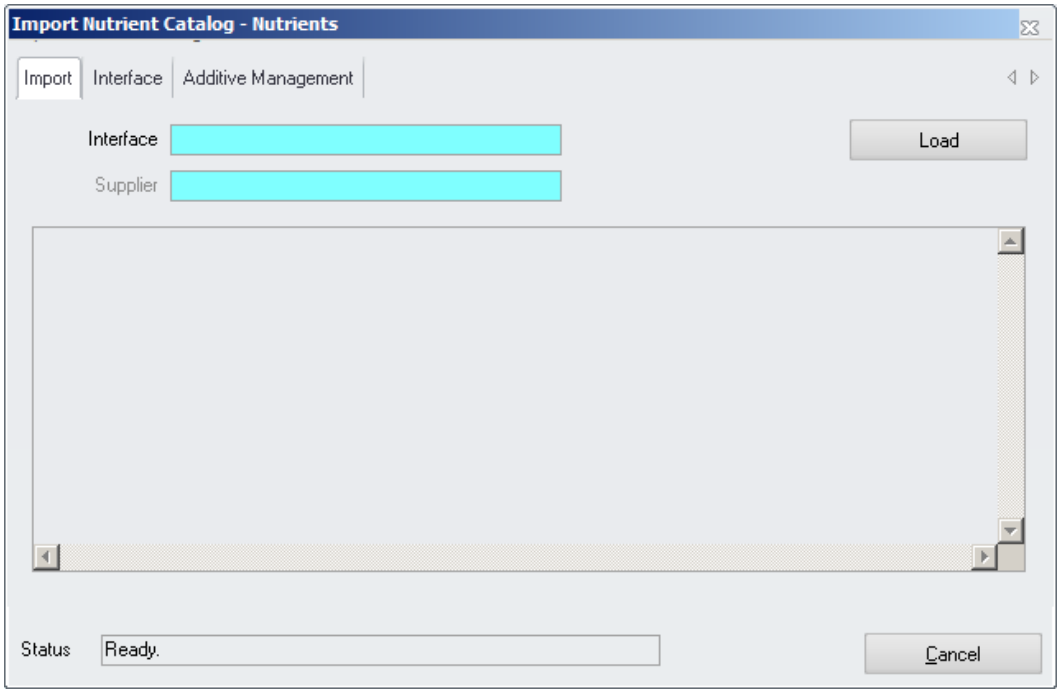
- In the menu section “Production” the sub group “Nutrients” can be found.



- Open any of the two modules. Here again select the menu section “Production” in the top menu and open the sub menu “Nutrients” again. Here the user can find the module “Import Nutrient Catalog”:

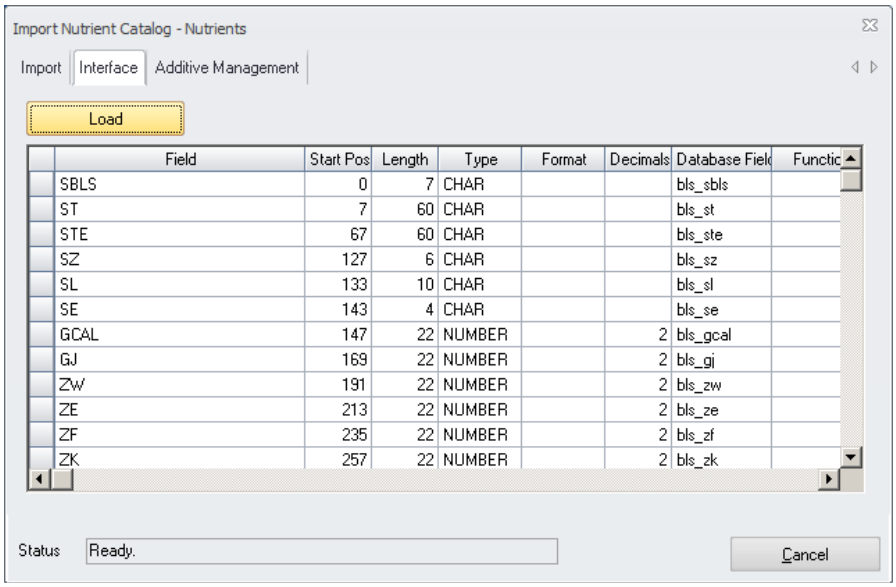


- Select this module to see the loaded old catalogues:

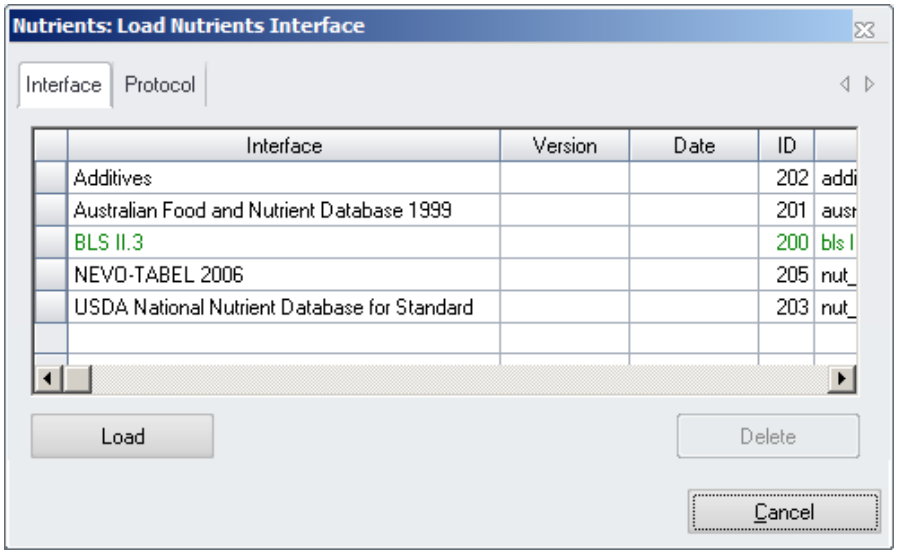


NOTE: The current catalogues must be loaded with the .NET based Catalogues Import tool explained below.

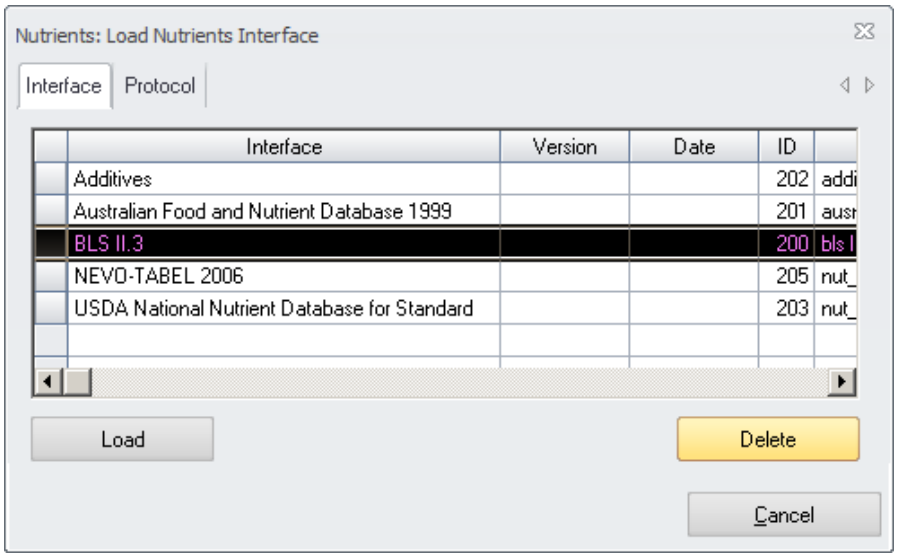
- In this module switch to the tab “Interface”:



- This screen shows the loaded interface description.
- Click on the button “Load” to get the loading screen:



- The current loaded catalogue is listed in green. Here the German BLS in version II.3 is loaded.



- Mark the record and click on the (now activated) button “Delete”. The system will now remove the loaded catalogue data ….

… and confirm the finalization at the end.

Now a new IFC / Catalogue can be loaded.

Nutrient Import Utility:

With Materials Control version 8.7.20.xx a new import tool was created to support actual catalogues.

Required Files:

- Nutrient Import Utility:
  This is a pure .NET application and will be delivered as separate software package. Each major release of Materials Control will require a matching version of this application. For each release it will be named like:

  NutrientImport_x_xx_x_xxxx.zip

- Valid catalogue files:

  For each catalogue a specific import file must be created by the Materials Control development. Please check with the EAME Product Management Team for the available catalogues.

  NOTE: in some countries there is a license required to use the catalogue. E.g. the German BLS requires a license. Please ensure that the customer owns a required license for this before importing the catalogue

Current available catalogues:

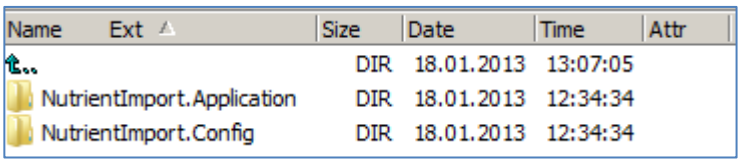
- Australia: NUTTAB2010
- Germany: BLS 3.01
- Netherlands: NEVO 2011
- USA: USDA sr25
- UK: CoFIDS

Installation Nutrient Import:

The Nutrient Import utility is a standalone application and does not require regular installation via Install Shield.

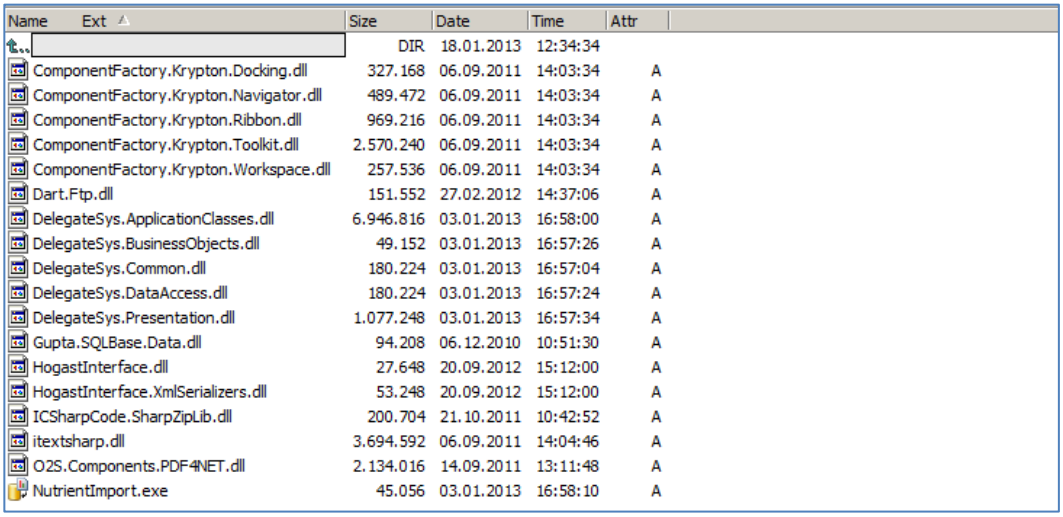
File name: NutrientImport_x_xx_x_xxxx.zip

Unzip the file and the resulting folder package will then consist of following sub-folders:



Name	Ext	Size	Date	Time	Attr
..		DIR	18.01.2013	13:07:05	
NutrientImport.Application		DIR	18.01.2013	12:34:34	
NutrientImport.Config		DIR	18.01.2013	12:34:34	

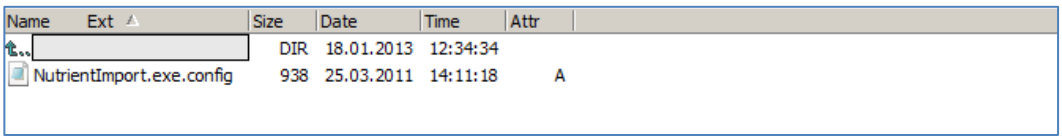
NutrientImport.Application folder contains an executable file and a number of libraries needed for operation of import tool:



Name	Ext	Size	Date	Time	Attr
..		DIR	18.01.2013	12:34:34	
ComponentFactory.Krypton.Docking.dll		327.168	06.09.2011	14:03:34	A
ComponentFactory.Krypton.Navigator.dll		489.472	06.09.2011	14:03:34	A
ComponentFactory.Krypton.Ribbon.dll		969.216	06.09.2011	14:03:34	A
ComponentFactory.Krypton.Toolkit.dll		2.570.240	06.09.2011	14:03:34	A
ComponentFactory.Krypton.Workspace.dll		257.536	06.09.2011	14:03:34	A
Dart.Ftp.dll		151.552	27.02.2012	14:37:06	A
DelegateSys.ApplicationClasses.dll		6.946.816	03.01.2013	16:58:00	A
DelegateSys.BusinessObjects.dll		49.152	03.01.2013	16:57:26	A
DelegateSys.Common.dll		180.224	03.01.2013	16:57:04	A
DelegateSys.DataAccess.dll		180.224	03.01.2013	16:57:24	A
DelegateSys.Presentation.dll		1.077.248	03.01.2013	16:57:34	A
Gupta.SQLBase.Data.dll		94.208	06.12.2010	10:51:30	A
HogastInterface.dll		27.648	20.09.2012	15:12:00	A
HogastInterface.XmlSerializers.dll		53.248	20.09.2012	15:12:00	A
ICSharpCode.SharpZipLib.dll		200.704	21.10.2011	10:42:52	A
itextsharp.dll		3.694.592	06.09.2011	14:04:46	A
O2S.Components.PDF4NET.dll		2.134.016	14.09.2011	13:11:48	A
NutrientImport.exe		45.056	03.01.2013	16:58:10	A

The NutrientImport.Application folder can now be renamed to user preference and moved to a directory of user preference.

NutrientImport.Config contains a configuration file:

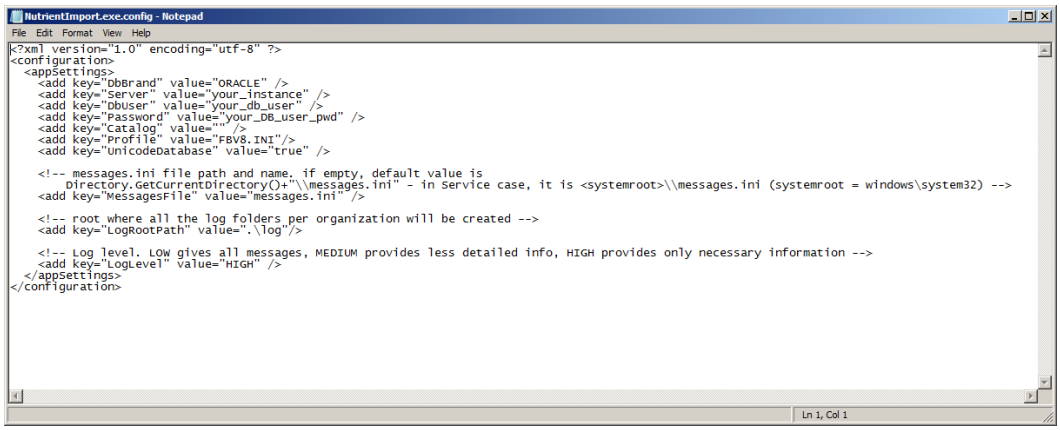


Name	Ext	Size	Date	Time	Attr
..		DIR	18.01.2013	12:34:34	
NutrientImport.exe.config		938	25.03.2011	14:11:18	A

At first installation this configuration file needs to be copied into the application directory of the NutrientImport.exe.

Configuration:

Open NutrientImport.exe.config file with a text editor (e.g. Notepad):



Now edit the connection parameters as required.

```
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
 <appSettings>
   <add key="DbBrand" value="ORACLE" />
   <add key="Server" value="your_instance" />
   <add key="DbUser" value="your_db_user" />
   <add key="Password" value="your_DB_user_pwd" />
   <add key="Catalog" value="" />
   <add key="Profile" value="FBV8.INI"/>
   <add key="UnicodeDatabase" value="true" />
```

- Server -> your_instance
  Enter here the name of the Oracle Instance.

- DbUser -> your_DB_user
  Here the Oracle DB user must be defined

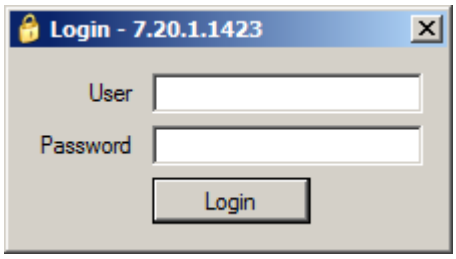
- Password -> your_DB_pwd
  Here the password for the DB user must be defined.

- UnicodeDatabase -> true
  Definition if Oracle DB was configured as Unicode

After modification just save and close the file.

Start the import:

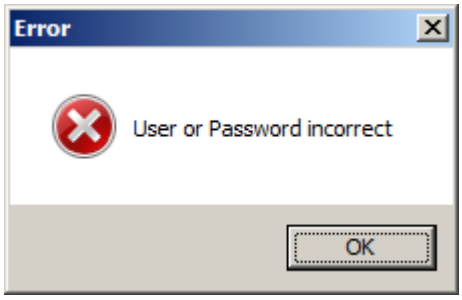
Double click NutrientImport.exe to start the process.



The system now asks for the standard user credentials for Materials Control.

Enter the user name and the corresponding password followed by a click on the button “Login”.

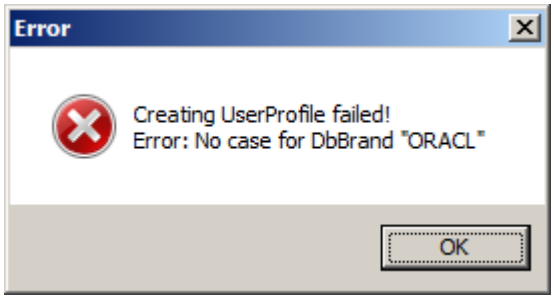
In case of incorrect user credentials the system will show the following message:



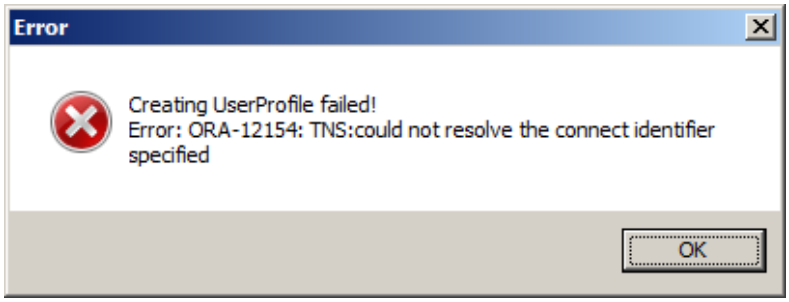
Click on “OK” and enter the correct user credentials.

Below some error messages indicating an incorrect configuration file:

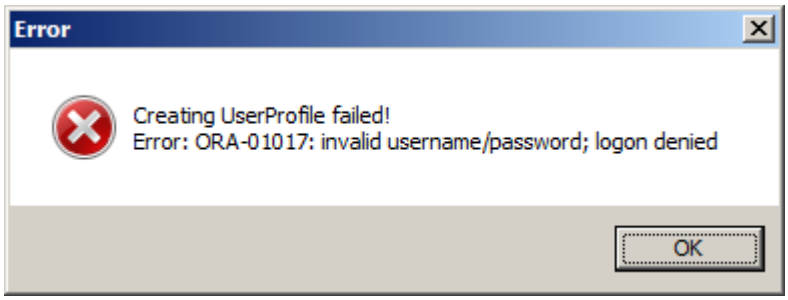
- Incorrect DB brand “ORACL” instead of “ORACLE”:



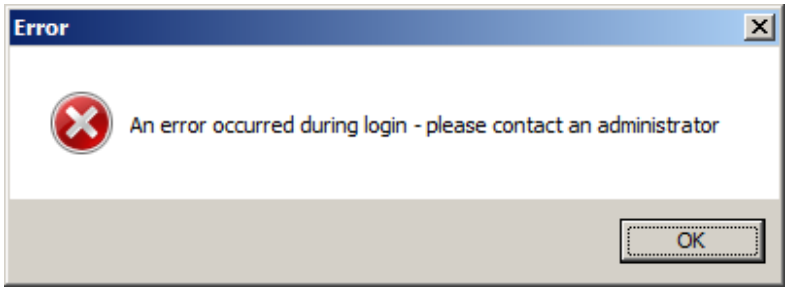
- Incorrect instance name:



- Incorrect DB user/pwd:

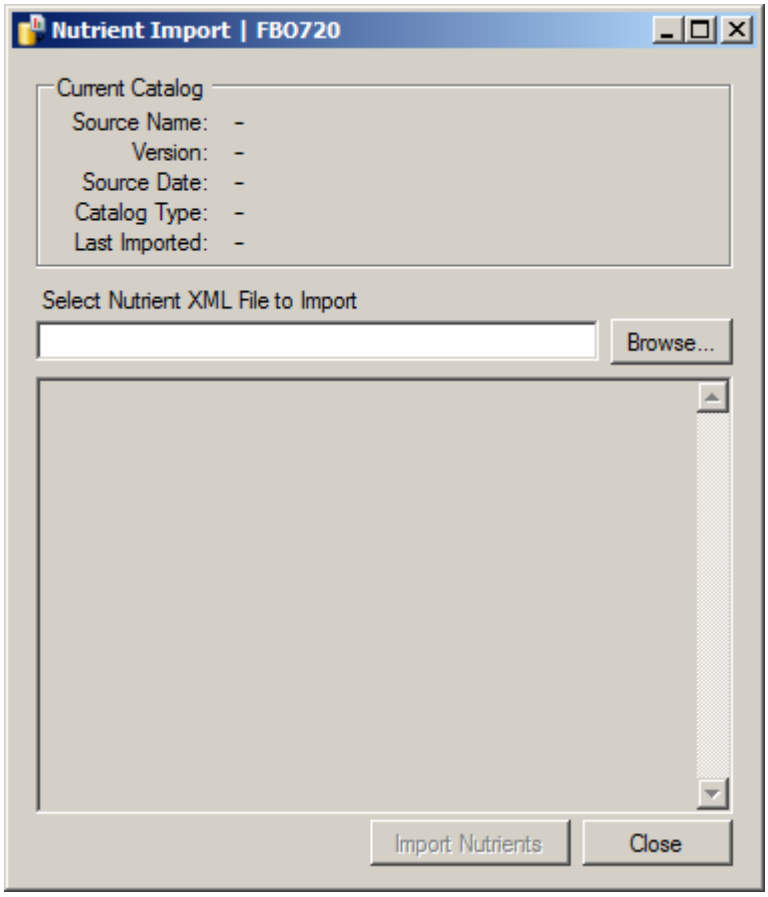


- Oracle Service not available or e.g. incorrect DB version:



The utility also creates a log directory in the application folder which contains the error log file. As usual this is named as YYYYMMDD.err (YYYYMMDD representing the date stamp).

After successful login the following screen will be shown:



In the case above no nutrient data is present in the database.

Click on the “Browse” button to load the catalogue file.

Please see the detailed chapters below for each supported catalogue.

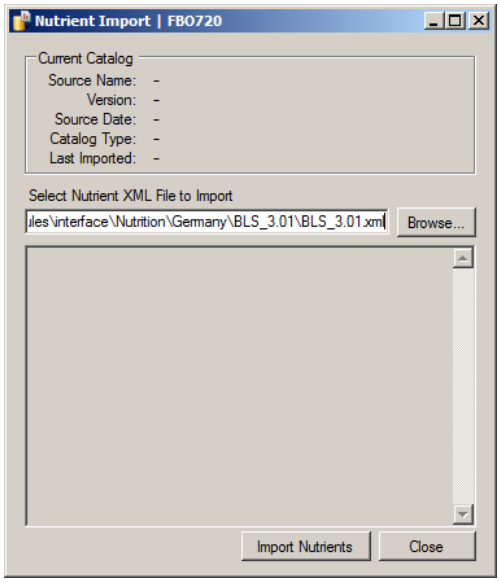
BLS Interface:

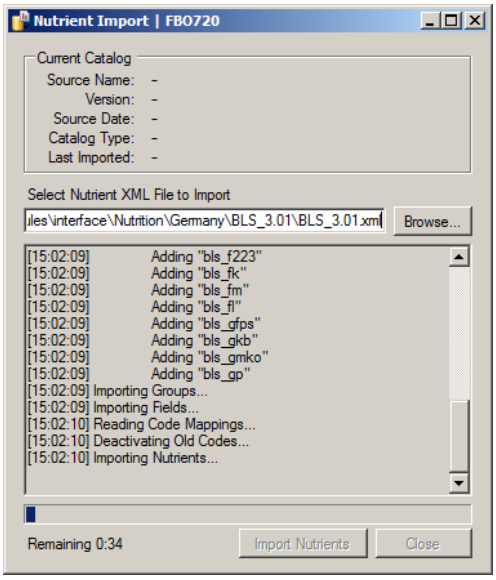
File name:		Size:	Date:
BLS_3.01.XML	Version 1	71 481 728	04.04.2011

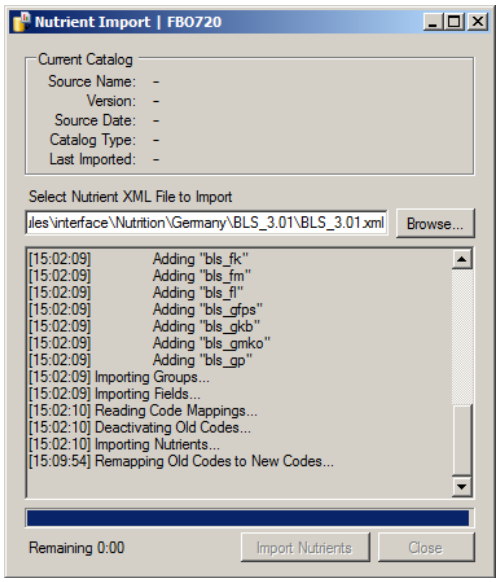
Never modify this file by yourself.

NOTE: Please keep in mind that the BLS requires a license to be ordered by the customer directly.
MICROS-Fidelio does not sell BLS licenses and the Materials Control application does not contain a BLS license!

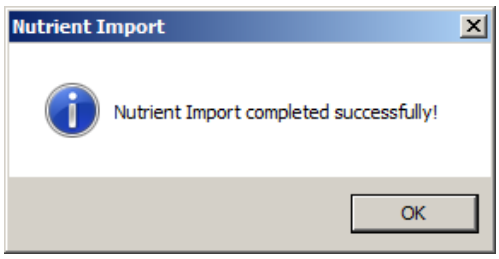
Click on the “Browse” button to locate the required catalogue and click on “Import Nutrients” to proceed:



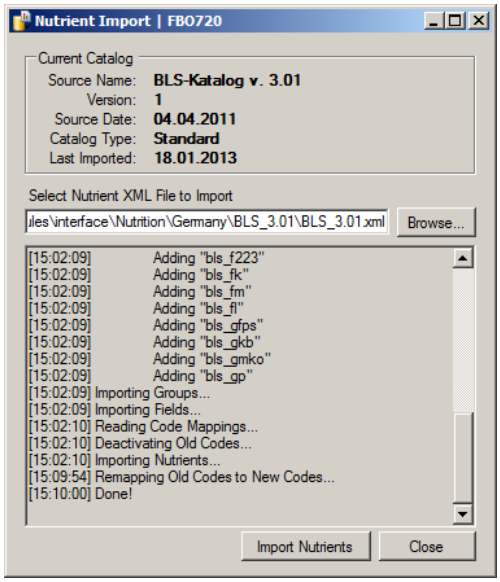




Once finished the application shows the following message:



After confirmation the import screen will show the catalogue details in the header section:



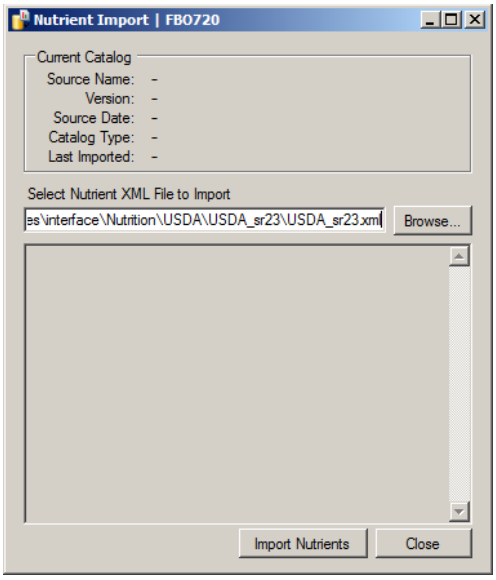
USDA Interface:

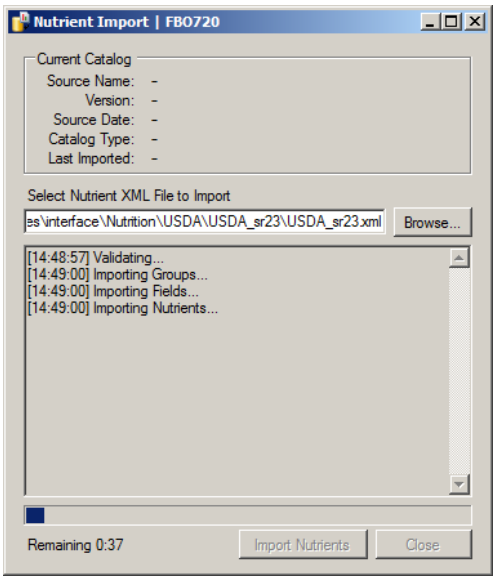
File name:	Size:	Date:
USDA_sr25.XML Version 1	21 979 075	17.04.2013

Never modify this file by yourself.

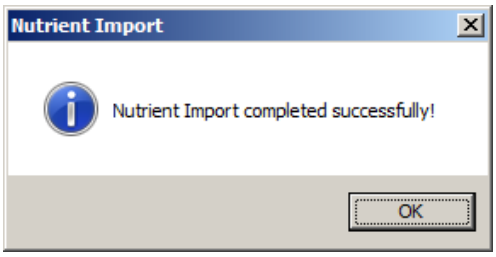
NOTE: Please check if the use of the USDA catalogue requires a license in your country. MICROS-Fidelio does not sell Nutrition Catalogue licenses and the Materials Control application does not contain a USDA license!

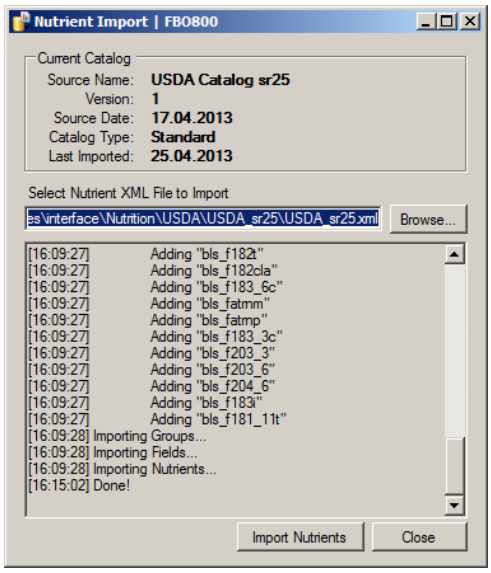
Click on the “Browse” button to locate the required catalogue and click on “Import Nutrients” to proceed:





Once finished the application shows the following message:





After confirmation the import screen will show the catalogue details in the header section.

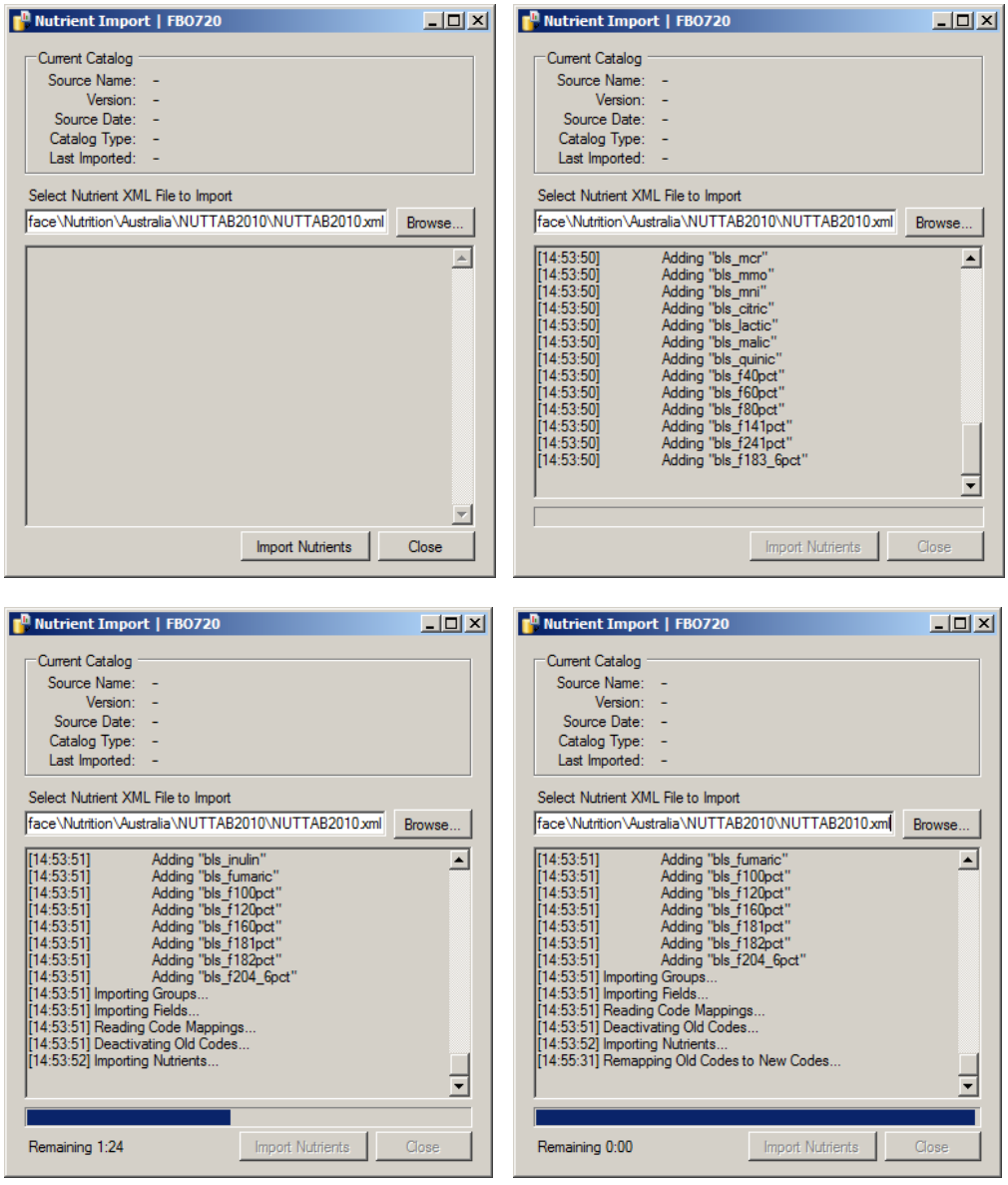
AUSNUT Interface:

File name:	Size:	Date:
NUTTAB2010.xml Version 1	6 921 101	22.06.2011

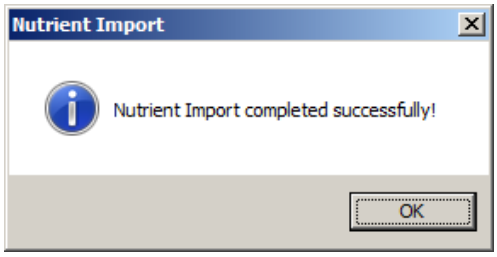
Never modify this file by yourself.

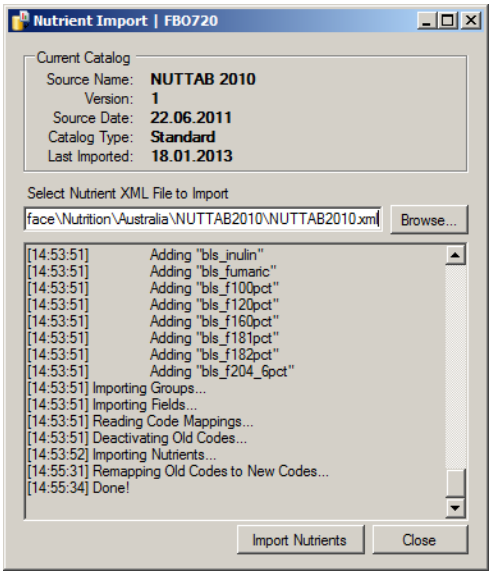
NOTE: Please check if the use of the Australian Nutrition catalogue requires a license in your country.
MICROS-Fidelio does not sell Nutrition Catalogue licenses and the Materials Control application does not contain a license for this!

Click on the “Browse” button to locate the required catalogue and click on “Import Nutrients” to proceed:



Once finished the application shows the following message:





After confirmation the import screen will show the catalogue details in the header section.

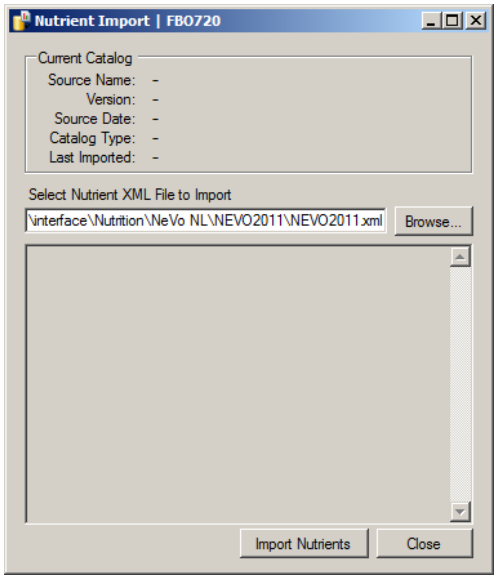
NEVO Interface:

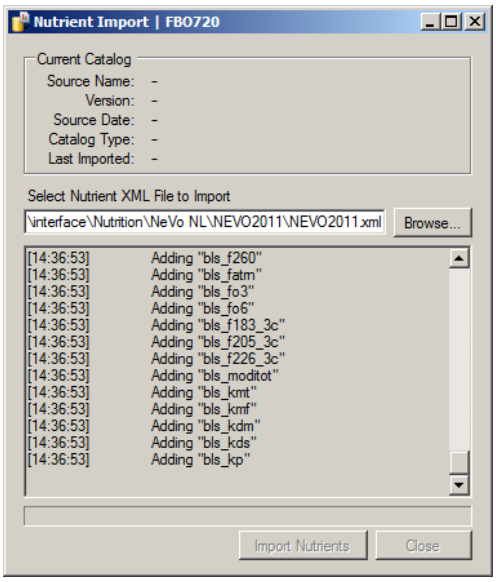
File name:		Size:	Date:
NEVO2011.XML	Version 2	8 417 194	13.03.2013

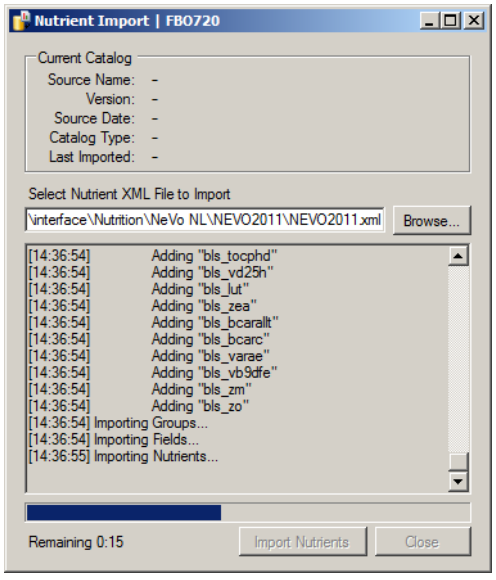
Never modify this file by yourself.

NOTE: Please check if the use of the NEVO catalogue requires a license in your country. MICROS-Fidelio does not sell Nutrition Catalogue licenses and the Materials Control application does not contain a license for this!

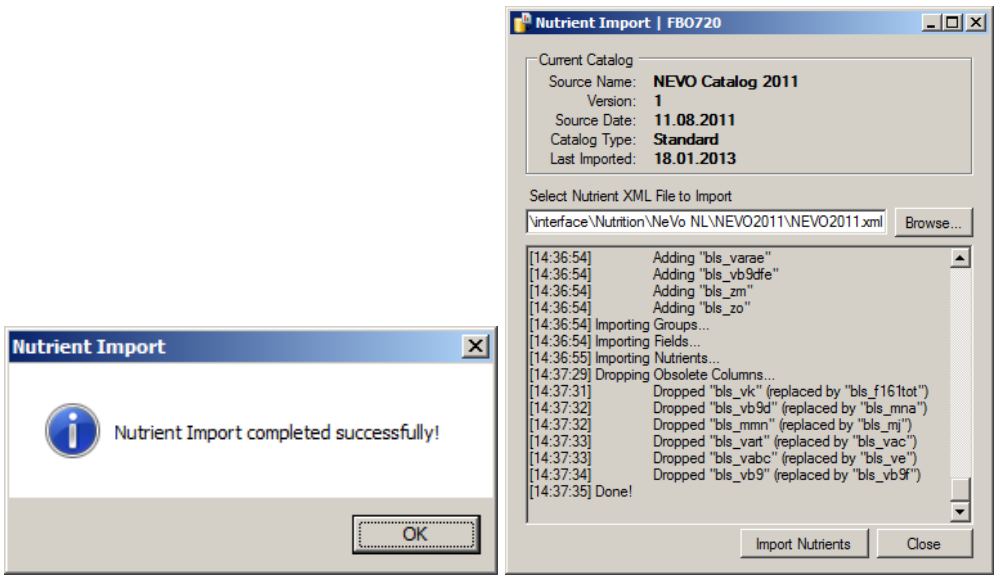
Click on the “Browse” button to locate the required catalogue and click on “Import Nutrients” to proceed:







Once finished the application shows the following message:



After confirmation the import screen will show the catalogue details in the header section.

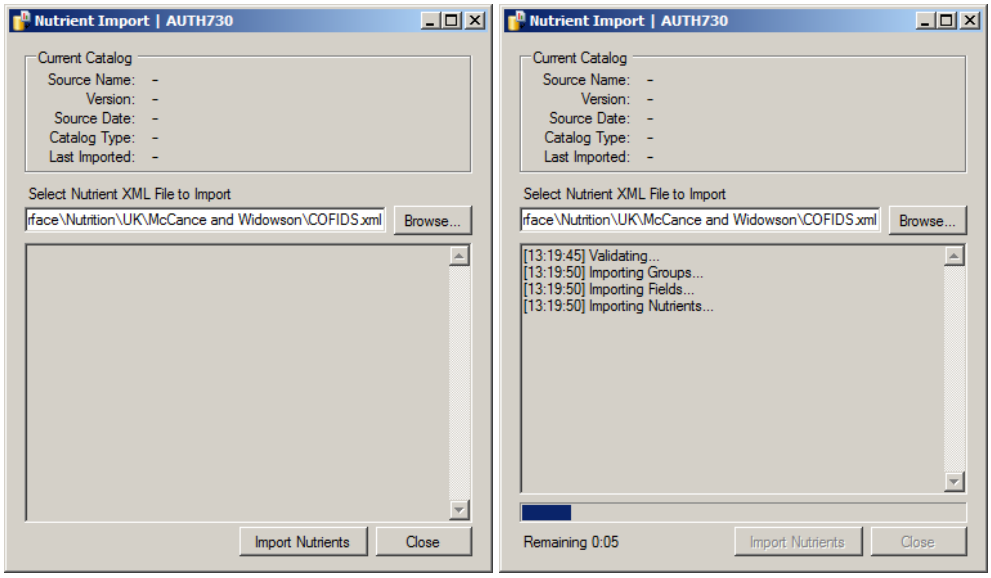
CoFIDS Interface:

File name:		Size:	Date:
COFIDS.XML	Version 1	7 459 086	26.04.2013

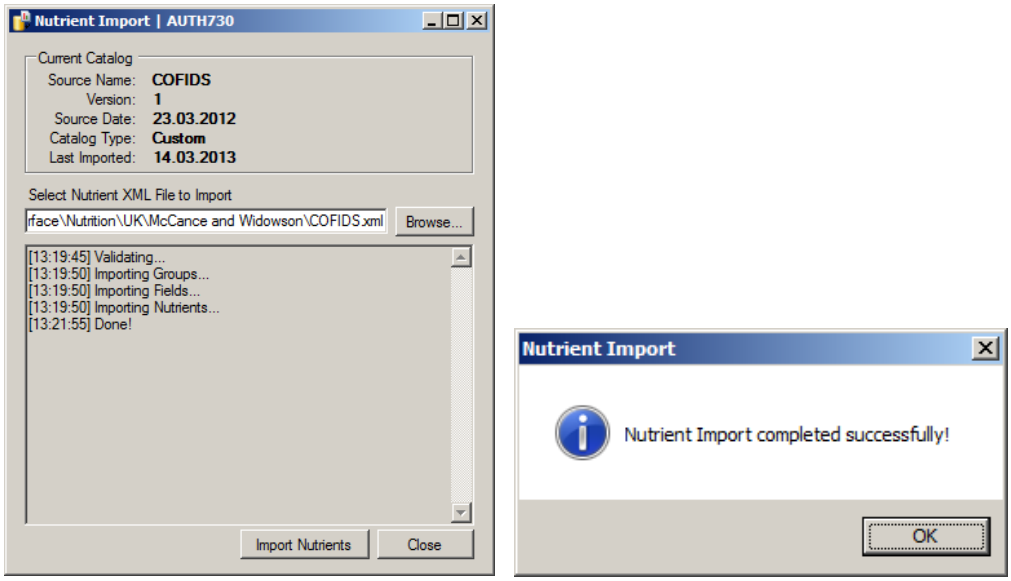
Never modify this file by yourself.

NOTE: Please check if the use of the COFIDS catalogue requires a license in your country.
MICROS-Fidelio does not sell Nutrition Catalogue licenses and the Materials Control application does not contain a license for this!

Click on the “Browse” button to locate the required catalogue and click on “Import Nutrients” to proceed:



Once finished the application shows the following message:



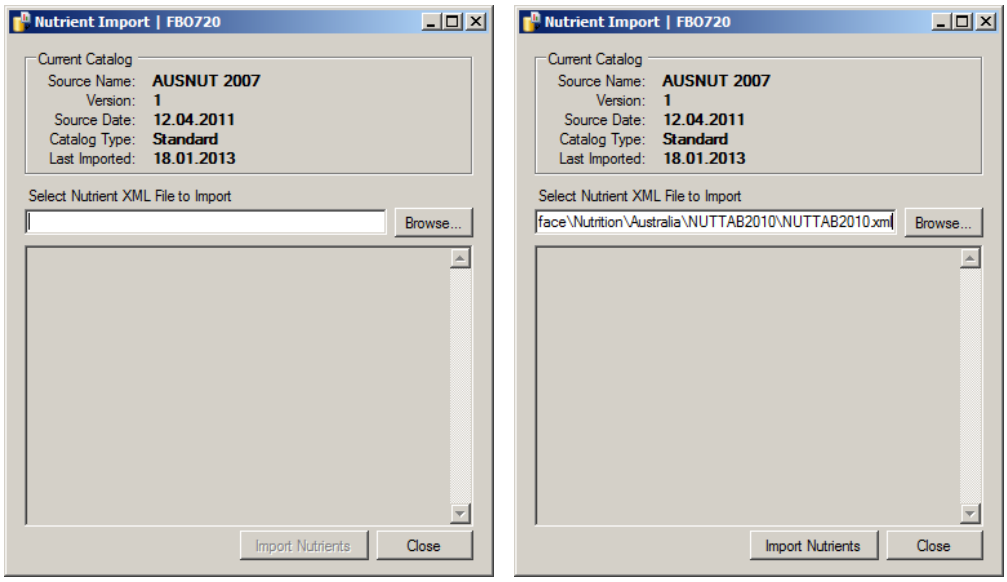
After confirmation the import screen will show the catalogue details in the header section.

Updating Existing Data:

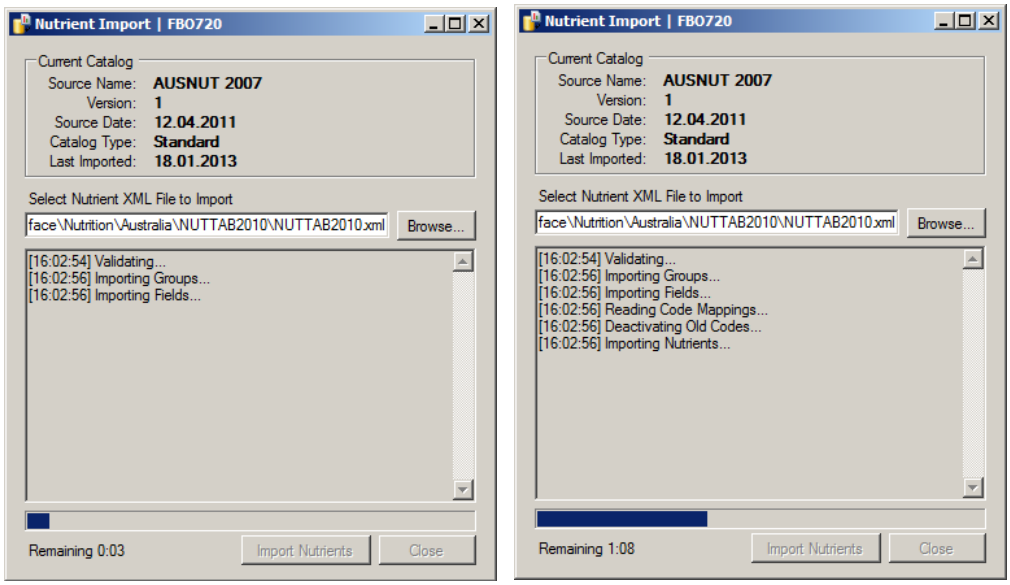
For some catalogues the files also allow to update the existing information in the database.

The following chapter will show the update of the Australian catalog data.

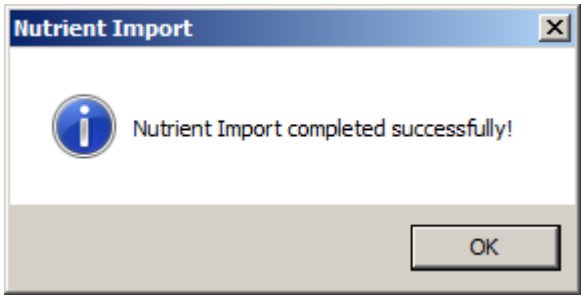
After login the application shows the version of the existing catalog:



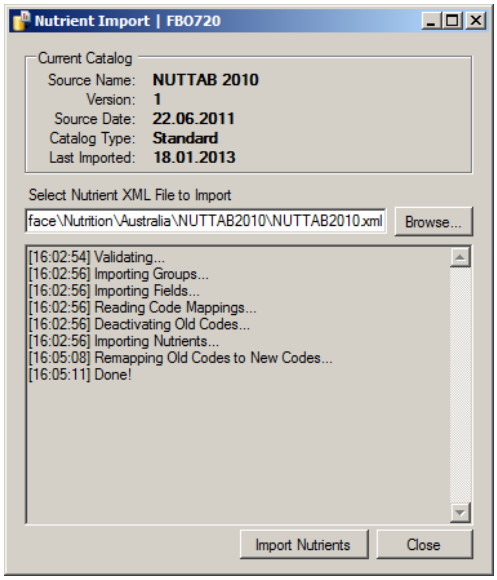
Click on “Browse” to select the actual file followed by “Import Nutrients”:



Once finished the usual message is shown …

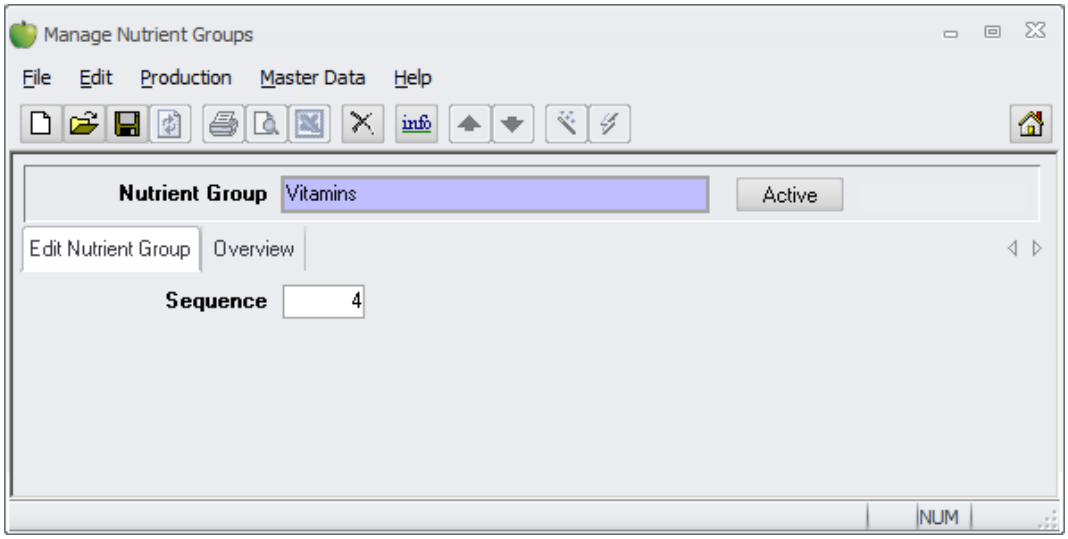


… and the catalog information is updated:



Creation of Nutrient Groups:

To use the nutrition information we have to assign the nutrients to groups. These groups are free definable. To create the groups go to Production > Nutrients > Nutrient Groups:



Enter the name of the nutrition group, e.g. Vitamins or Energy into the field Nutrition Group
Enter the sorting sequence into the field Sequence. This sorting sequence will be used in the view. The nutrients will be shown by nutrient groups and predefined sequence per group.

Those groups could be for example:

Water, Minerals, Proteins, Vitamins, Carbohydrates, Fats, Fatty Acids, Energy,

NEVO Nutrient Groups:

When using the NEVO2011 Catalogue the following table shows the available nutrients and their corresponding groups (to be created & linked):

Nutrient Name	Nutrient Name
25-hydroxy-vitamine D	Energie en marconutrienten
Energie kJ	Energie en marconutrienten
Energie kcal	Energie en marconutrienten
Alcohol totaal	Energie en marconutrienten
Organische zuren totaal	Energie en marconutrienten
Voedingsvezel totaal	Energie en marconutrienten
Water	Energie en marconutrienten
Eiwit dierlijk	Eiwitten
Eiwit plantaardig	Eiwitten
Eiwit totaal	Eiwitten
Fructose	Koolhydraten
Glucose	Koolhydraten
Isomalt	Koolhydraten
Koolhydraten totaal	Koolhydraten
Lactitol	Koolhydraten
Lactose	Koolhydraten
Maltose	Koolhydraten
Mono en disacchariden totaal	Koolhydraten
Polyolen totaal	Koolhydraten
Polysacchariden totaal	Koolhydraten
Saccharose	Koolhydraten
Sorbitol	Koolhydraten
Xylitol	Koolhydraten
Cholesterol	Vetten
Som van de vetzuren	Vetten
Vet totaal	Vetten
Vetzuren totaal trans	Vetten
C10:0	Vetzuren - verzadigd
C11:0	Vetzuren - verzadigd
C12:0	Vetzuren - verzadigd
C13:0	Vetzuren - verzadigd
C14:0	Vetzuren - verzadigd
C15:0	Vetzuren - verzadigd
C16:0	Vetzuren - verzadigd
C17:0	Vetzuren - verzadigd
C18:0	Vetzuren - verzadigd
C19:0	Vetzuren - verzadigd

C20:0	Vetzuren - verzadigd
C21:0	Vetzuren - verzadigd
C22:0	Vetzuren - verzadigd
C23:0	Vetzuren - verzadigd
C24:0	Vetzuren - verzadigd
C25:0	Vetzuren - verzadigd
C26:0	Vetzuren - verzadigd
C2:0	Vetzuren - verzadigd
C4:0	Vetzuren - verzadigd
C6:0	Vetzuren - verzadigd
C8:0	Vetzuren - verzadigd
Verz vetz rest	Vetzuren - verzadigd
Vetzuren totaal verzadigd	Vetzuren - verzadigd
C10:1 cis totaal	Vetzuren - enkelvoudig onverzadigd
C10:1 trans totaal	Vetzuren - enkelvoudig onverzadigd
C12:1 cis totaal	Vetzuren - enkelvoudig onverzadigd
C12:1 trans totaal	Vetzuren - enkelvoudig onverzadigd
C14:1 cis totaal	Vetzuren - enkelvoudig onverzadigd
C14:1 trans totaal	Vetzuren - enkelvoudig onverzadigd
C15:1 cis totaal	Vetzuren - enkelvoudig onverzadigd
C16:1 cis totaal	Vetzuren - enkelvoudig onverzadigd
C16:1 n-7 cis	Vetzuren - enkelvoudig onverzadigd
C16:1 n-7 trans	Vetzuren - enkelvoudig onverzadigd
C16:1 trans totaal	Vetzuren - enkelvoudig onverzadigd
C17:1 cis	Vetzuren - enkelvoudig onverzadigd
C18:1 cis totaal	Vetzuren - enkelvoudig onverzadigd
C18:1 n-10 trans	Vetzuren - enkelvoudig onverzadigd
C18:1 n-11 cis	Vetzuren - enkelvoudig onverzadigd
C18:1 n-11 trans	Vetzuren - enkelvoudig onverzadigd
C18:1 n-12 cis	Vetzuren - enkelvoudig onverzadigd
C18:1 n-12 trans	Vetzuren - enkelvoudig onverzadigd
C18:1 n-13 cis	Vetzuren - enkelvoudig onverzadigd
C18:1 n-2 trans	Vetzuren - enkelvoudig onverzadigd
C18:1 n-3 cis	Vetzuren - enkelvoudig onverzadigd
C18:1 n-3 trans	Vetzuren - enkelvoudig onverzadigd
C18:1 n-4 cis	Vetzuren - enkelvoudig onverzadigd
C18:1 n-4 trans	Vetzuren - enkelvoudig onverzadigd
C18:1 n-5 cis	Vetzuren - enkelvoudig onverzadigd
C18:1 n-5 trans	Vetzuren - enkelvoudig onverzadigd
C18:1 n-6 cis	Vetzuren - enkelvoudig onverzadigd
C18:1 n-6 trans	Vetzuren - enkelvoudig onverzadigd
C18:1 n-7 cis	Vetzuren - enkelvoudig onverzadigd

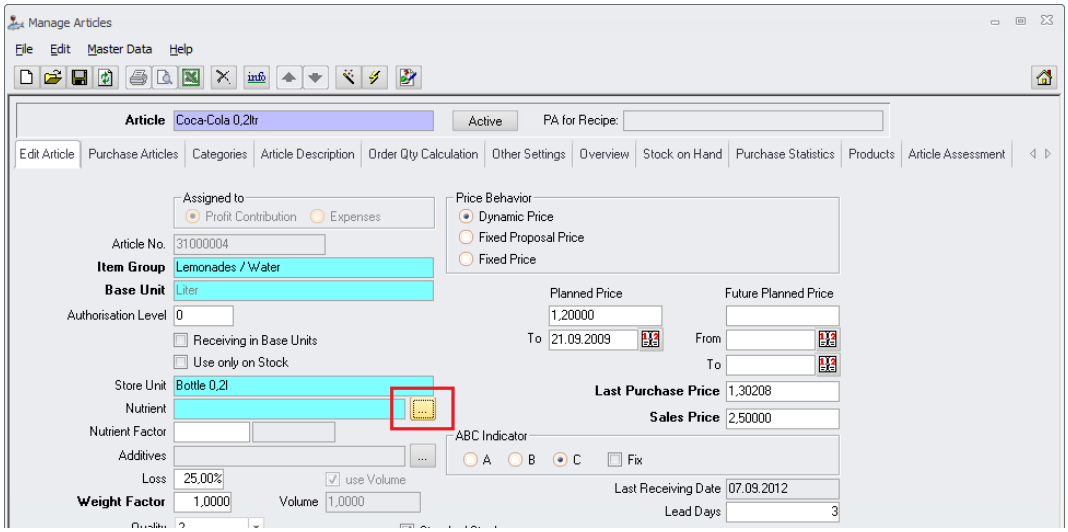
C18:1 n-7 trans	Vetzuren - enkelvoudig onverzadigd
C18:1 n-8 cis	Vetzuren - enkelvoudig onverzadigd
C18:1 n-8 trans	Vetzuren - enkelvoudig onverzadigd
C18:1 n-9 cis	Vetzuren - enkelvoudig onverzadigd
C18:1 n-9 trans	Vetzuren - enkelvoudig onverzadigd
C18:1 totaal overigen	Vetzuren - enkelvoudig onverzadigd
C18:1 trans totaal	Vetzuren - enkelvoudig onverzadigd
C20:1 cis totaal	Vetzuren - enkelvoudig onverzadigd
C20:1 trans totaal	Vetzuren - enkelvoudig onverzadigd
C22:1 cis totaal	Vetzuren - enkelvoudig onverzadigd
C22:1 n-11	Vetzuren - enkelvoudig onverzadigd
C22:1 n-9	Vetzuren - enkelvoudig onverzadigd
C22:1 trans totaal	Vetzuren - enkelvoudig onverzadigd
C24:1 cis totaal	Vetzuren - enkelvoudig onverzadigd
C24:1 trans totaal	Vetzuren - enkelvoudig onverzadigd
Eovz cis rest	Vetzuren - enkelvoudig onverzadigd
Eovz rest c+t	Vetzuren - enkelvoudig onverzadigd
Eovz trans rest	Vetzuren - enkelvoudig onverzadigd
Vetzuren enkelv onverz cis	Vetzuren - enkelvoudig onverzadigd
C18:2 cis trans	Vetzuren - meervoudig onverzadigd
C18:2 geconjugeerd totaal	Vetzuren - meervoudig onverzadigd
C18:2 n-6 cis (linolzuur)	Vetzuren - meervoudig onverzadigd
C18:2 n-6 trans	Vetzuren - meervoudig onverzadigd
C18:2 n-9 cis	Vetzuren - meervoudig onverzadigd
C18:2 overigen	Vetzuren - meervoudig onverzadigd
C18:3 n-3 cis (ALA)	Vetzuren - meervoudig onverzadigd
C18:3 n-3 cis (ALA) %	Vetzuren - meervoudig onverzadigd
C18:3 n-3 trans	Vetzuren - meervoudig onverzadigd
C18:3 n-6 cis	Vetzuren - meervoudig onverzadigd
C18:4 n-3 cis	Vetzuren - meervoudig onverzadigd
C20:2 n-6 cis	Vetzuren - meervoudig onverzadigd
C20:2 n-6 trans	Vetzuren - meervoudig onverzadigd
C20:3 n-3 cis	Vetzuren - meervoudig onverzadigd
C20:3 n-6 cis	Vetzuren - meervoudig onverzadigd
C20:3 n-9 cis	Vetzuren - meervoudig onverzadigd
C20:4 n-3 cis	Vetzuren - meervoudig onverzadigd
C20:4 n-6 cis	Vetzuren - meervoudig onverzadigd
C20:5 n-3 cis (EPA)	Vetzuren - meervoudig onverzadigd
C20:5 n-3 cis (EPA) %	Vetzuren - meervoudig onverzadigd
C22:2 n-3 cis	Vetzuren - meervoudig onverzadigd
C22:2 n-6 cis	Vetzuren - meervoudig onverzadigd
C22:3 n-3 cis	Vetzuren - meervoudig onverzadigd

C22:4 n-6 cis	Vetzuren - meervoudig onverzadigd
C22:5 n-3 cis	Vetzuren - meervoudig onverzadigd
C22:5 n-6 cis	Vetzuren - meervoudig onverzadigd
C22:6 n-3 cis (DHA)	Vetzuren - meervoudig onverzadigd
C22:6 n-3 cis (DHA) %	Vetzuren - meervoudig onverzadigd
C24:2 n-6 cis	Vetzuren - meervoudig onverzadigd
Linolzuur (C18:2(n-6)cis)	Vetzuren - meervoudig onverzadigd
Movz cis rest	Vetzuren - meervoudig onverzadigd
Movz rest c+t	Vetzuren - meervoudig onverzadigd
Vetzuren meerv onverz	Vetzuren - meervoudig onverzadigd
Vetzuren n-3 meerv onverz cis	Vetzuren - meervoudig onverzadigd
Vetzuren n-6 meerv onverz cis	Vetzuren - meervoudig onverzadigd
Niet-geidentificeerde vetzuren	Vetzuren - Ongeïdentificeerd
As	Mineralen en spoorelementen
Calcium	Mineralen en spoorelementen
Fosfor	Mineralen en spoorelementen
IJzer haem	Mineralen en spoorelementen
IJzer non haem	Mineralen en spoorelementen
IJzer totaal	Mineralen en spoorelementen
Jodium	Mineralen en spoorelementen
Kalium	Mineralen en spoorelementen
Koper	Mineralen en spoorelementen
Magnesium	Mineralen en spoorelementen
Natrium	Mineralen en spoorelementen
Selenium	Mineralen en spoorelementen
Stikstof totaal	Mineralen en spoorelementen
Zink	Mineralen en spoorelementen
Vitamine B1	Vitamines
Vitamine B12	Vitamines
Vitamine B2	Vitamines
Vitamine B6 totaal	Vitamines
Vitamine C	Vitamines
Vitamine D totaal	Vitamines
Vitamine E totaal	Vitamines
Alfa-caroteen	Vitamines
Alfa-tocoferol	Vitamines
Beta-caroteen	Vitamines
Beta-caroteen all-trans	Vitamines
Beta-caroteen cis	Vitamines
Beta-cryptoxanthine	Vitamines
Beta-tocoferol	Vitamines
Delta-tocoferol	Vitamines

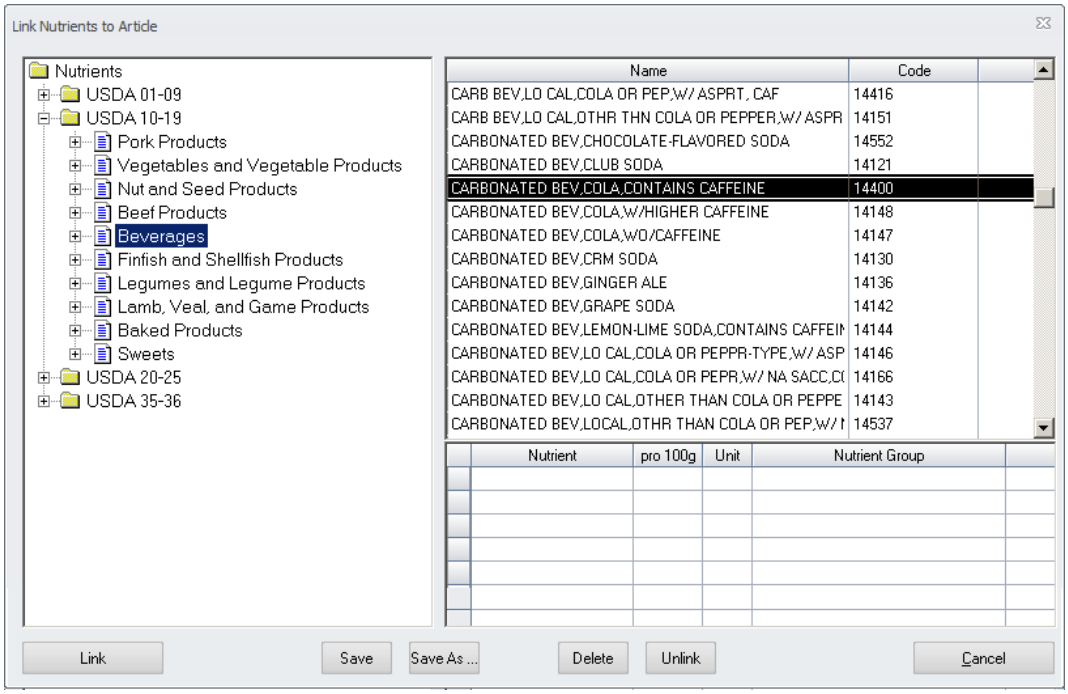
Folaat	Vitamines
Folaat equivalenten	Vitamines
Foliumzuur	Vitamines
Lycopeen	Vitamines
Nicotinezuur	Vitamines
Retinol	Vitamines
Retinol activiteit equiv.(RAE)	Vitamines
Retinol equivalenten	Vitamines
Zeaxanthine	Vitamines
Gamma-tocoferol	Vitamines
Luteine	Vitamines

Assign nutrients to Articles:

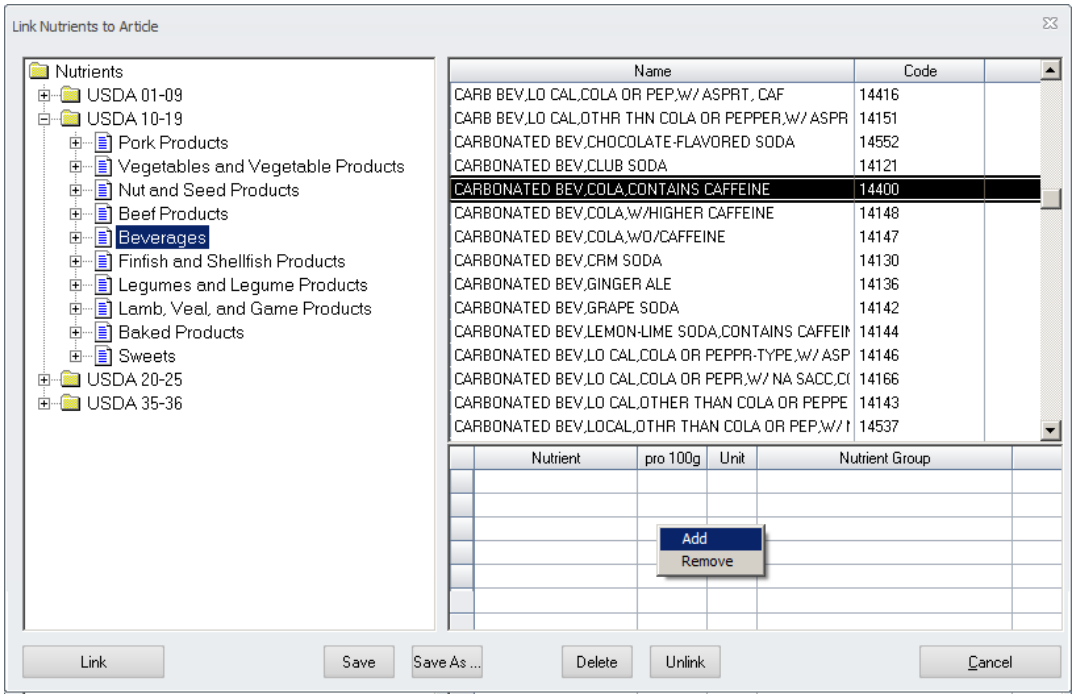
To use this information in articles and recipes we have to assign to every stock article a corresponding item from the catalogue.
Go to Master Data > Articles > select an article
In the middle of the screen you can find a field called Nutrients. Click on the button next to this column.



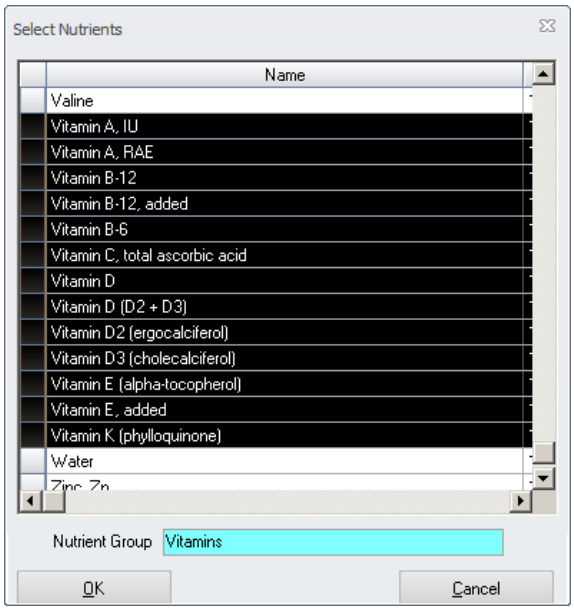
A new screen pops up and shows in the left window the available item groups from the catalogue file:



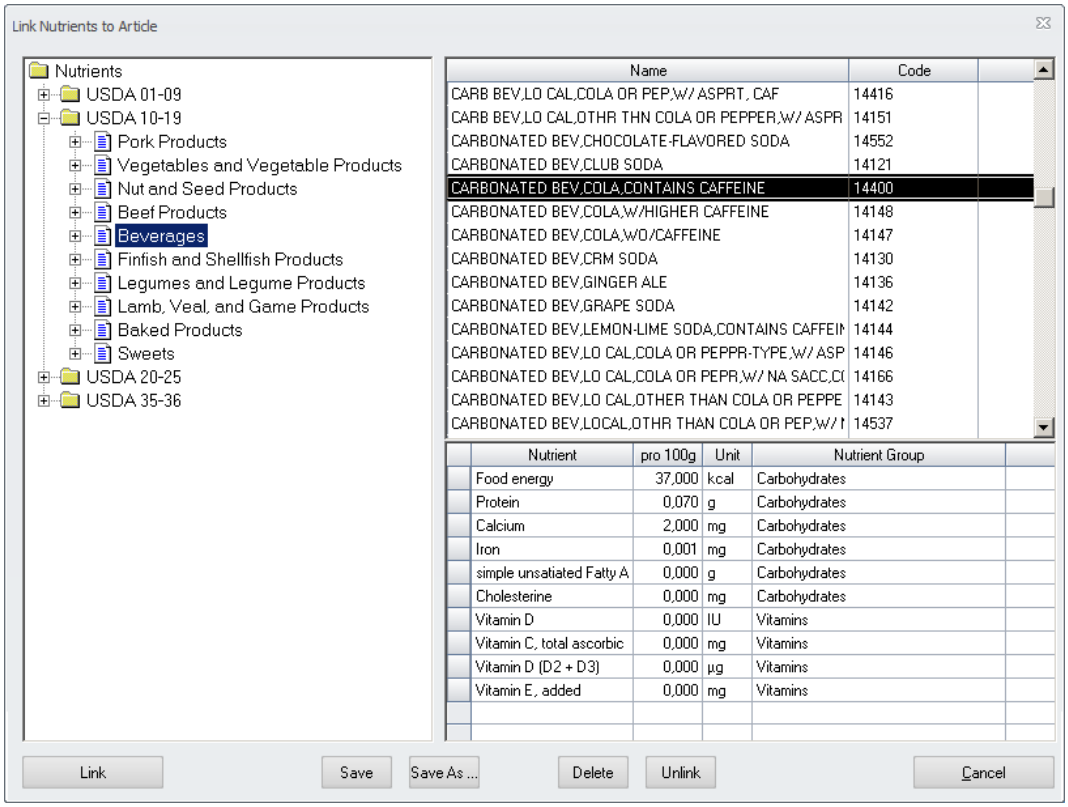
Select the group for this article by clicking. The system shows now in the upper right window all available articles from the catalogue file.



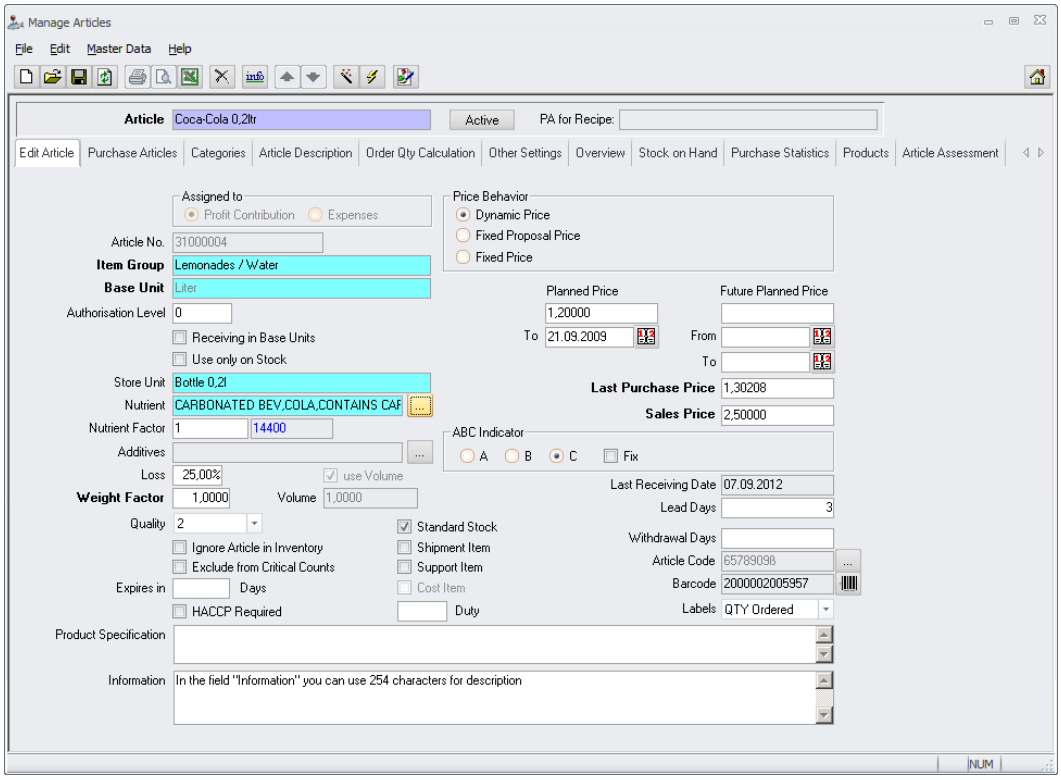
The system shows now in the upper right window all available articles from the catalogue file. The bottom right window is still empty. Now, at the first assignment of an article from Materials Control to a corresponding article from the catalogue file, we have to assign once the available nutritional components to the Nutrient Groups created before. Right-click on the right window and select “Add” to open the selection screen.



Mark the nutrients and select the group you have created before and click on OK. Please just mark the required records. Otherwise the displayed information in the modules could become confusing at the end.

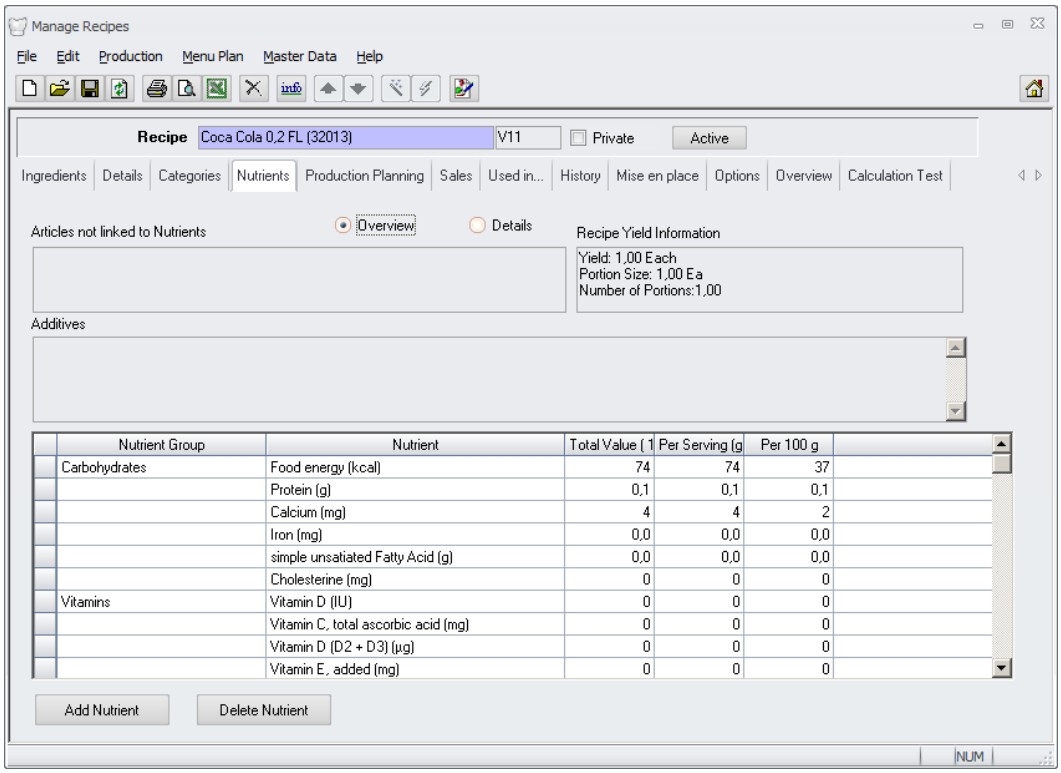


After selecting an article from the catalogue list and clicking “Link” the information is attached to the stock article in Materials Control.

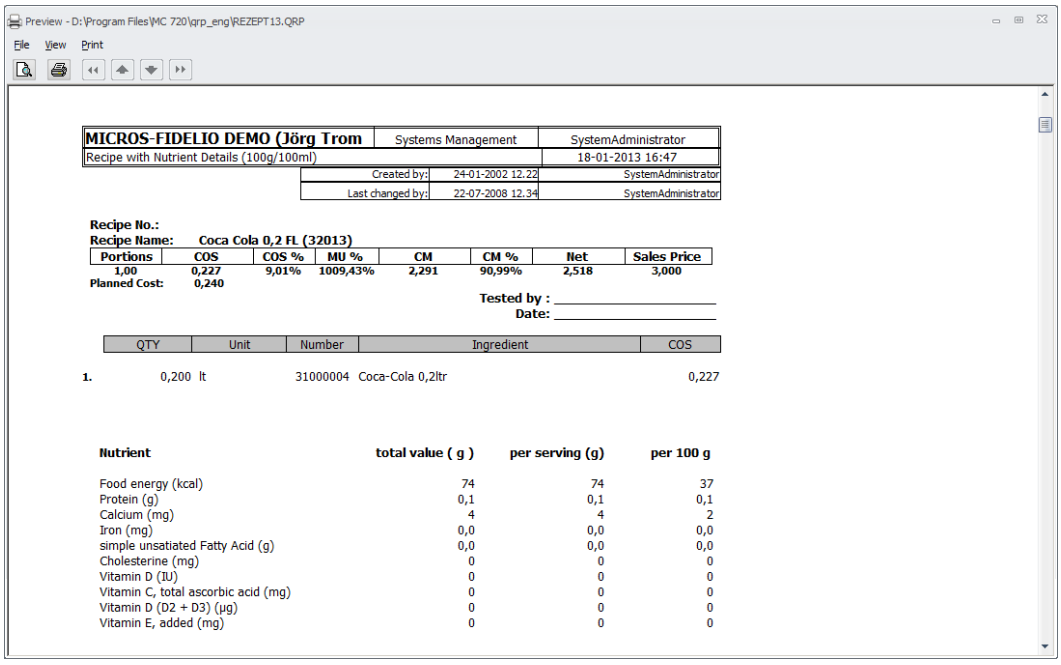


Features:

Recipes:
Go to Production > Recipes and select a recipe. Click on the TAB “Nutrients”. All nutritional information for ingredients with assigned information will be displayed here and can be printed.



Nutrient Group	Nutrient	Total Value (1	Per Serving (g	Per 100 g
Carbohydrates	Food energy (kcal)	74	74	37
	Protein (g)	0,1	0,1	0,1
	Calcium (mg)	4	4	2
	Iron (mg)	0,0	0,0	0,0
	simple unsatiated Fatty Acid (g)	0,0	0,0	0,0
	Cholesterine (mg)	0	0	0
Vitamins	Vitamin D (IU)	0	0	0
	Vitamin C, total ascorbic acid (mg)	0	0	0
	Vitamin D (D2 + D3) (µg)	0	0	0
	Vitamin E, added (mg)	0	0	0



MICROS-FIDELIO DEMO (Jörg Trom	Systems Management	SystemAdministrator
Recipe with Nutrient Details (100g/100ml)		18-01-2013 16:47
	Created by: 24-01-2002 12.22	SystemAdministrator
	Last changed by: 22-07-2008 12.34	SystemAdministrator

Recipe No.:
Recipe Name: Coca Cola 0,2 FL (32013)

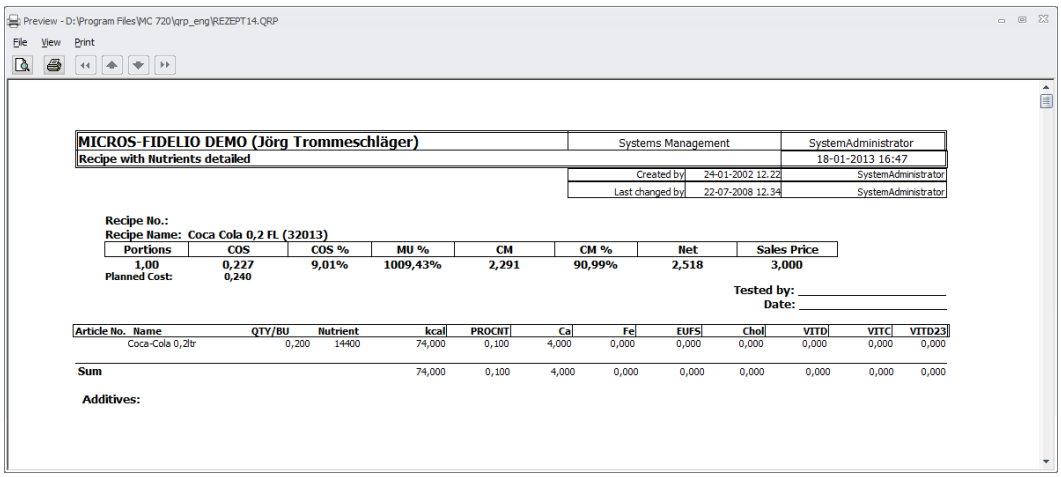
Portions	COS	COS %	MU %	CM	CM %	Net	Sales Price
1,00	0,227	9,01%	1009,43%	2,291	90,99%	2,518	3,000

Planned Cost: 0,240

Tested by : _____
Date: _____

	QTY	Unit	Number	Ingredient	COS
1.	0,200	lt	31000004	Coca-Cola 0,2ltr	0,227

Nutrient	total value (g)	per serving (g)	per 100 g
Food energy (kcal)	74	74	37
Protein (g)	0,1	0,1	0,1
Calcium (mg)	4	4	2
Iron (mg)	0,0	0,0	0,0
simple unsatiated Fatty Acid (g)	0,0	0,0	0,0
Cholesterine (mg)	0	0	0
Vitamin D (IU)	0	0	0
Vitamin C, total ascorbic acid (mg)	0	0	0
Vitamin D (D2 + D3) (µg)	0	0	0
Vitamin E, added (mg)	0	0	0



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