



KjelLink

Manual – Sample list import

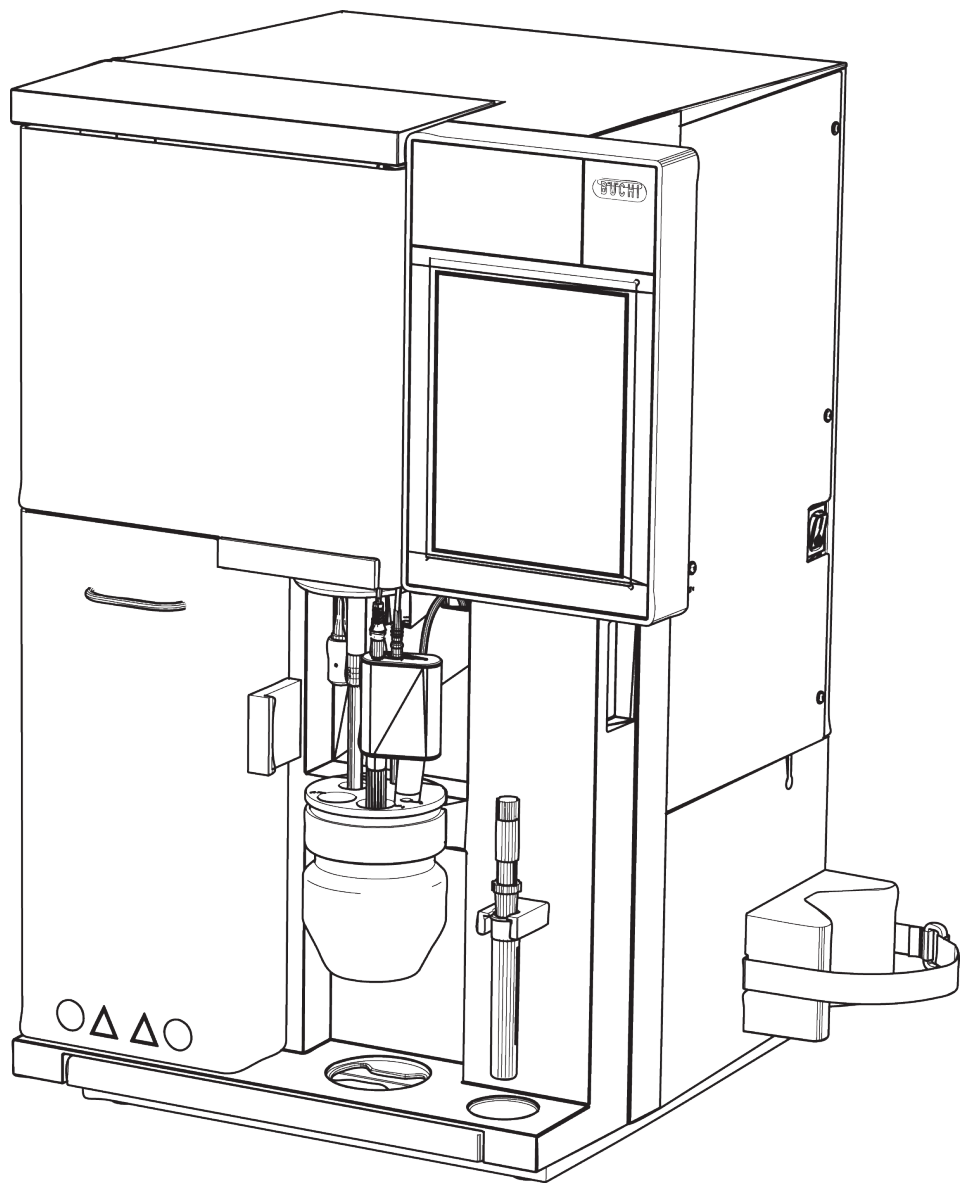


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Read this manual carefully before installing and running your system.

Store the manual in the immediate vicinity of the PC running the software, so that it can be consulted at any time.

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1 Introduction

1.1 General

In KjelLink it is possible to define complete sample lists containing all data of the attached methods and reference substances. These lists can be exported from KjelLink and imported on the KjelMaster or even re-imported into KjelLink.

Individual "Customer" sample list files containing the sample data and the names of the used method, reference substances or group can be created and imported into KjelLink. This document is a description for the software developer how to setup such a file type.

1.2 Glossary

Definition	Meaning
XML	Extensible M arkup L anguage
CSV	C omma- s eparated v alues
UNICODE	A computing industry standard for the consistent encoding, representation and handling of text expressed in most of the world's writing systems.
API	A pplication p rogramming i nterface
GUID	G lobally U nique I dentifier
KjelLink	BUCHI Management Software for KjelMaster
LIMS	L aboratory I nformation M anagement S ystem

2 XML structure

2.1 File Types in Kjellink

Two types of sample list files are available:

Kjellink sample list:

- File ending “**ksli**”
- The file is handled by Kjellink or KjellMaster K-375 and may not be edited or altered manually
- Complete structure and data including complete method and reference substance data
- Export from and import into Kjellink
- Import into KjellMaster

Customer sample list:

- File ending “**csli**”
- Customer created file
- Simple XML structure containing some or all basic sample data
- Import in Kjellink only

2.2 Customer File Structure

The “Customer” sample list file *.csli must have a defined structure containing the sample data.

2.2.1 General Structure

The required XML structure is shown below. The “Steps” contain the sample data.

```
<?xml version="1.0"?>
<SampleListFile>
  <SampleList>
    <Steps>
      <Step>
        <Sample>
          > First sample
        </Sample>
      </Step>
      <Step>
        <Sample>
          > Second sample
        </Sample>
      </Step>
    </Steps>
  </SampleList>
</SampleListFile>
```

2.2.2 Sample Data

Any Sample data is optional. If no sample data is available while importing, Kjellink will set the data to a standard value. Any data declared in the file but is not needed for a particular type will be ignored.

Element/Sub-element	Data
<Name>	Name consisting of max. 50 characters: A..Z, a..z, 0..9, space, full stop and minus It is recommended to always give a name to easily identify the sample later in Kjellink.
<Type>	0 = Blank 1 = Sample 2 = Reference Substance 3 = Control Blank
<QuantityValue>	0.000000–9'999'999, max. 7 digits
<QuantityUnit>	0 = g 1 = mL
<QuantitySignificantDigits>	Enter the number of significant digits for <QuantityValue>: 1–7
<Method><Name>	The name of an existing determination method. A method with this name must be available in Kjellink before importing the customer sample. If the method does not exist, the “Standard Method” is used.
<Substance><Name>	The name of an existing reference substance. A reference substance with this name must be available in Kjellink before importing the customer sample. If the reference substance does not exist, “Glycine” is used.
<Group><Name>	The name of an existing group. A group with this name must be available in Kjellink before importing the customer sample. If the group does not exist, “Default” is used.

Element/Sub-element	Data
	The sample creation date and time. If no date is defined the current date and time at the moment of import will be added.
	yyyy-mm-ddThh:mm:ss or yyyy-mm-dd
	yyyy = 4 digits for the year
<ModifiedDateTime>	mm = 2 digits for the month, 01–12
	dd = 2 digits for the day, 01–31
	hh = 2 digits for the day, 00–23
	mm = 2 digits for the minutes, 00–59
	ss = 2 digits for the seconds, 00–59
	Examples: 2012-11-20T09:13:00 2012-11-20

Example: A complete sample data set.

NOTE:

The sample type 1 "Sample" does not need a Substance.

```

<Step>
  <Sample>
    <Name>My Sample</Name>
    <Type>1</Type>
    <QuantityValue>12.3</QuantityValue>
    <QuantityUnit>0</QuantityUnit>
    <QuantitySignificantDigits>3</QuantitySignificantDigits>
    <ProteinFactor>7.12</ProteinFactor>
    <Method>
      <Name>My Method</Name>
    </Method>
    <Substance>
      <Name>My Substance</Name>
    </Substance>
    <Group>
      <Name>My Group</Name>
    </Group>
    <ModifiedDateTime>2012-11-20T09:13:00</ModifiedDateTime>
  </Sample>
</Step>

```


2.3 Importing Customer Sample Lists

A customer sample list can be imported into KjelLink via the menus Sample Lists or Sequences (detail view of the rack), just like any other sample list.

If a customer sample list is imported an additional note "Customer sample data imported" will appear in the import message box.

It is also recommended to see the import log statements ("Import Export Log") for detailed information. The log entries have one of the following prefixes:

```
=== Import started  
>>> Regular import information  
### Problem occurred while importing.
```


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