

# Extracting bead level data using MasterPlex CT

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## 1 General

Classical statistical analysis of xMap, and notably MiraiBio's own analysis software, 'MasterPlex **QT**', only uses the MFI. Therefore, saving the bead level information is set as an option in the acquisition software 'MasterPlex CT' and needs to be enabled.

## 2 Saving the raw bead events

In order to save the bead level information, some options should be checked before starting the acquisition.

- In the '**Home**' tab
- Click the Setup '**Modify**' button to open the 'Acquisition Setup' dialog box.

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- ‘Setup’ tab

v1.0 In the Output section, check ‘Save binary file also.’

v1.2.0.7 In the Output section, check ‘Save copy of output file in the output folder’ and ‘Save copies of the individual well run files in the output folder’

- Select a ‘Plate ID’ and an ‘Output Folder’
- OK

### 3 Locating the files

The files are located in the selected ‘Output Folder’ and are based on the given ‘Plate ID’.

**PLATE\_ID.lxd** is the summary file used by the vendor’s analysis software. It contains the calculated MFIs as well as information on the Setup of the acquisition and the analytes used.

**PLATE\_ID\_WELL.lxb** are the binary files containing the raw bead events required to run LumiR.

### 4 Summary file

Unlike with other acquisition softwares, LumiR make use of the summary file produced by MasterPlex CT. If the .lxd file is provided, the package will extract the information regarding the matching of the bead ID with the analyte name. See the LumiR’s User guide for more information.

### 5 References

MasterPlex CT 1.0 User’s Manual:

<http://www.miraibio.com/download-document/masterplex-ct-v1-user-s-manual.html>

MasterPlex CT Tutorial:

<http://www.miraibio.com/download-document/tutorial-for-masterplex-ct.html>