

Extracting bead level data using Bio-Plex Manager

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1 General

This acquisition software from BioRad uses a proprietary file format that cannot be read directly by `LumiR`. These files with a `.rbx` extension should be exported in XML in order to be read by `read.experiment`.

2 Saving the raw bead events

The first step is to make sure that the bead level information is saved by Bio-Plex.

In the ‘Save As’ dialog box, when saving protocols (extension `.pbx`) and results (`.rbx`), the compression mode must be disabled (default). Compression mode removes the raw bead event from the saved file in order to save space.

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3 Exporting to XML

For Bio-Plex data, LumiR requires a single .xml file per plate.

3.1 Export a single file

To export an existing file into XML:

- Open a .rbx file
- File Menu > Document Export
- Choose **‘Bio-Plex XML’**
- Choose The destination File
- Export

3.2 Export as a routine

To export automatically at the end of a run:

- File Menu > Document Export Properties
- Choose **‘Bio-Plex XML’**
- Check **‘Use Folder’** in the Destination section and Choose the desired folder.
- OK
- Create or load a Protocol
- Advanced Settings Button
- Check **‘Auto save after run’** and **‘Auto XML export after run’**
- OK

4 References

Bio-Plex Manager 6.1 User Guide