BRIGHTSPEC

bAxil

Software for X-ray spectrum analysis and quantitative elemental analysis (EDXRF)

Complete software for the analysis of energy-dispersive X-ray spectra, with quantitative elemental analysis. It can analyse spectra independently of the excitation and detection technology and quantifies by calibration against standards or by the fundamental parameter method.



Primary function

Analysis of energy-dispersive X-ray spectra with quantitative elemental analysis, independent of e xcitation and detection t echnology [1]

Functions

Gaussian and Voigt peak shapes with tail and step components; quantification by linear regression against standards or the fundamental parameter method (standard-based or standard-less) [1]

File formats

Own XML files (*.axml); i mports other formats, e.g. *.spe [2]

Specifications

Primary function	Analysis of energy-dispersive X-ray spectra with quantitative elemental analysis, independent of excitation and detection technology	[1]
Functions	Gaussian and Voigt peak shapes with tail and step components; quantification by linear regression against standards or the fundamental parameter method (standard-based or standard-less)	[1]
File formats	Own XML files (*.axml); imports other formats, e.g. *.spe	[2]
Listed operating system	Windows, macOS and Linux	[2]
ptions	bAxil programming libraries (separate product)	[2]

Sources

[1] **bAxil**
BrightSpec · product-page · Product page · checked 2026-10-16
https://www.brightspec.be/brightspec/?q=node/31

[2] **bAxil specifications (V1.1)**
BrightSpec · datasheet · p. 3; p. 1, Features; p. 1 · checked 2026-10-16
https://www.brightspec.be/brightspec/downloads/bAXIL_Spec_V1.1_Extensive.pdf

Every value is taken from the manufacturer's own document; the number after the value refers to the source list. Always check against the latest datasheet before ordering.

The data comes from the manufacturer's published documents. Manufacturers may change specifications; the current configuration and performance are confirmed in the quotation.