



# Alpha analysis software

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### DESCRIPTION

AlphaPRO is the successor to the GammaPRO program, adapted with certain limitations but designed specifically for alpha spectrometry tasks. It incorporates advanced algorithms for determining sample activity, including the ROI method with an overdetermined matrix, individual peak analysis, and the superposition method. For high-resolution spectra obtained from semiconductor spectrometers, AlphaPRO offers specialized tools such as peak search, Gaussian approximation, isotope identification, and efficiency curve plotting.

### FEATURES

- Supported Amber models: Amber-2, 4, 8, 12
- Visualization of spectra and spectrum acquisition progress
- Peak search and fit by Gaussian
- Identification of radionuclides
- Energy, FWHM and peak shape calibration
- Calculation of efficiency curves and sensitivities
- Calculation of activity by peak method
- Calculation of activity by matrix (ROI) method
- Calculation of MDA according ISO 11929
- Simple and easy to use report editor
- Library of radionuclides and library editor
- Mathematical operations (sum, subtraction, normalization etc.)
- Batch spectra processing
- Simple and easy to use report editor
- Library of radionuclides and library editor
- Quality assurance control
- Database MS Access which provides transfer and storage of measurement results in a database
- Log which provides automatic registration and storage of measurement and quality assurance results
- Support for the main spectrum formats: SPE, N42, CNF, CHN, SPC, ASW, TXT etc.



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**Alpha-rays**