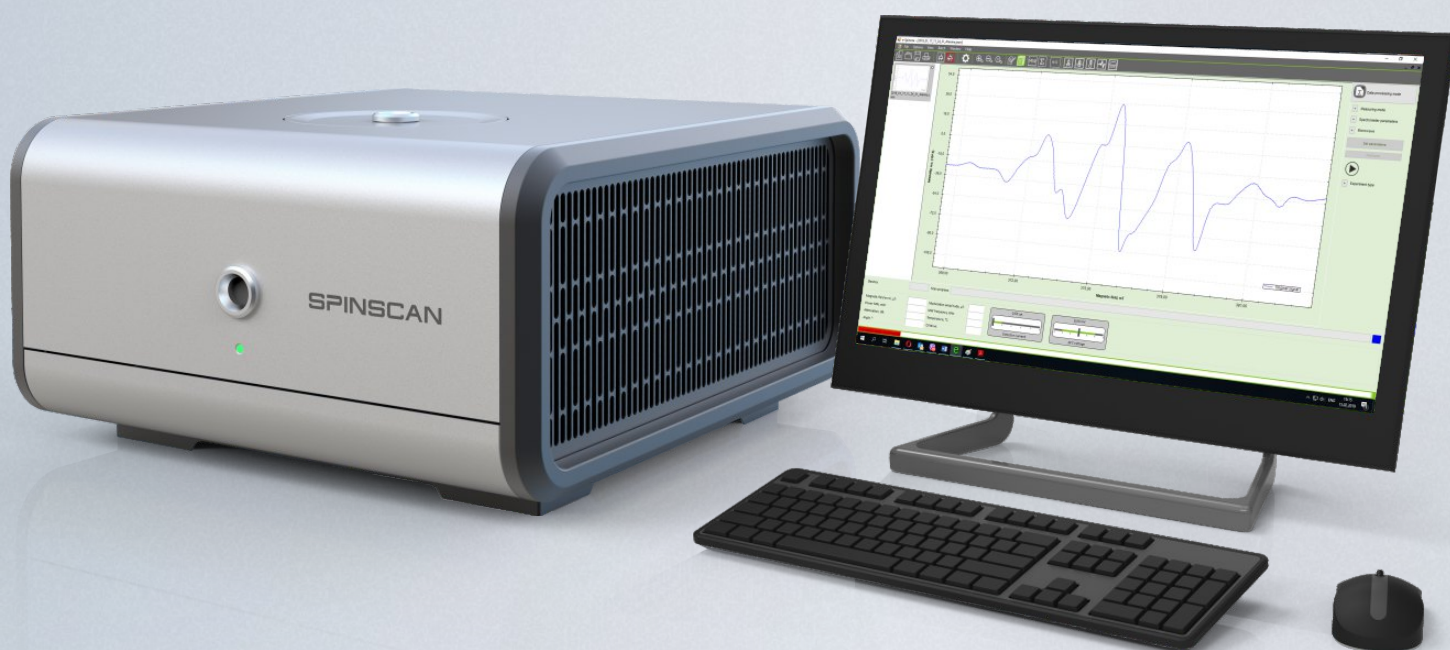




SPINSCAN XDS

APPROVED BY EXPERTS
EPR SYSTEM FOR ALANINE AND FOOD DOSIMETRY



KEY APPLICATIONS

- FOOD IRRADIATION
- POLYMER MODIFICATIONS
- MEDICAL PRODUCTS & COSMETICS STERILIZATION
- RADIATION CHEMISTRY RESEARCH
- ENVIRONMENTAL STERILIZATION



An ionizing radiation- induced paramagnetic defects in matter have high specific EPR signals and are used as a selective markers for EPR dosimetry.

The unique high sensitive EPR technique is an effective tool both for low therapeutic and extremely high absorbed dose readout

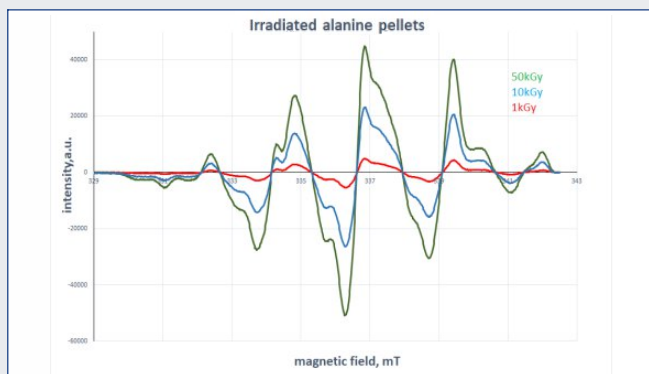
SPINSCAN XDS

RELIABLE QUALITY CONTROL FOR ROUTINE PRACTICE & RESEARCH



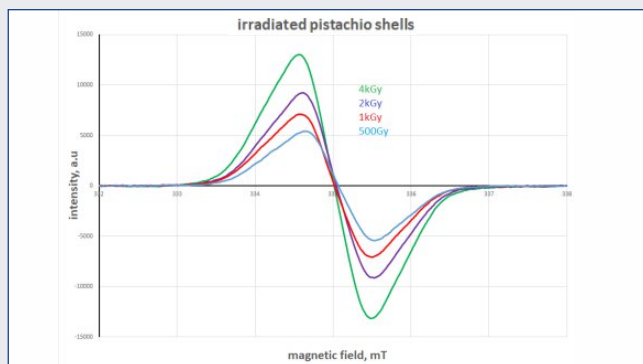
HIGHLIGHTS

- Meet ISO/ASTM standards
- Accurate absorbed dose read out
- Metrological quality at high performance
- Repeatability & reproducibility - less than 1%
- Wide dynamic range - quantify both high and low doses from 1 Gy to 200 kGy
- Optimized measurement protocol - from 10 to 200 seconds
- Minimal detected dose - up to 1 Gy
- Compensation of temperature and humidity effect
- Integrated Ruby reference sample for verification and stability tests
- Autogain - automatically tunes to enable maximum dynamic range
- Automatic operation requiring less trained users



SOFTWARE DOSIMETRY PACKAGE

Automated standard operation protocol
Measurement guidelines
The calibration curve creation/verification
The absorbed dose evaluation
The performance of dose mapping
Database for the dose and relevant data records
File management system
General database functionality
Can be customized for specific industrial demands



SYSTEM COMPONENTS

Benchtop EPR spectrometer SPINSCAN XDS
Precise positioning dosimeter holders
Calibration set
Alanine dosimeters (alanine pellets, films, rods etc.)
Software dosimetry package
Analytical balance (optional)
Bar code reader(optional)
Work operation station

