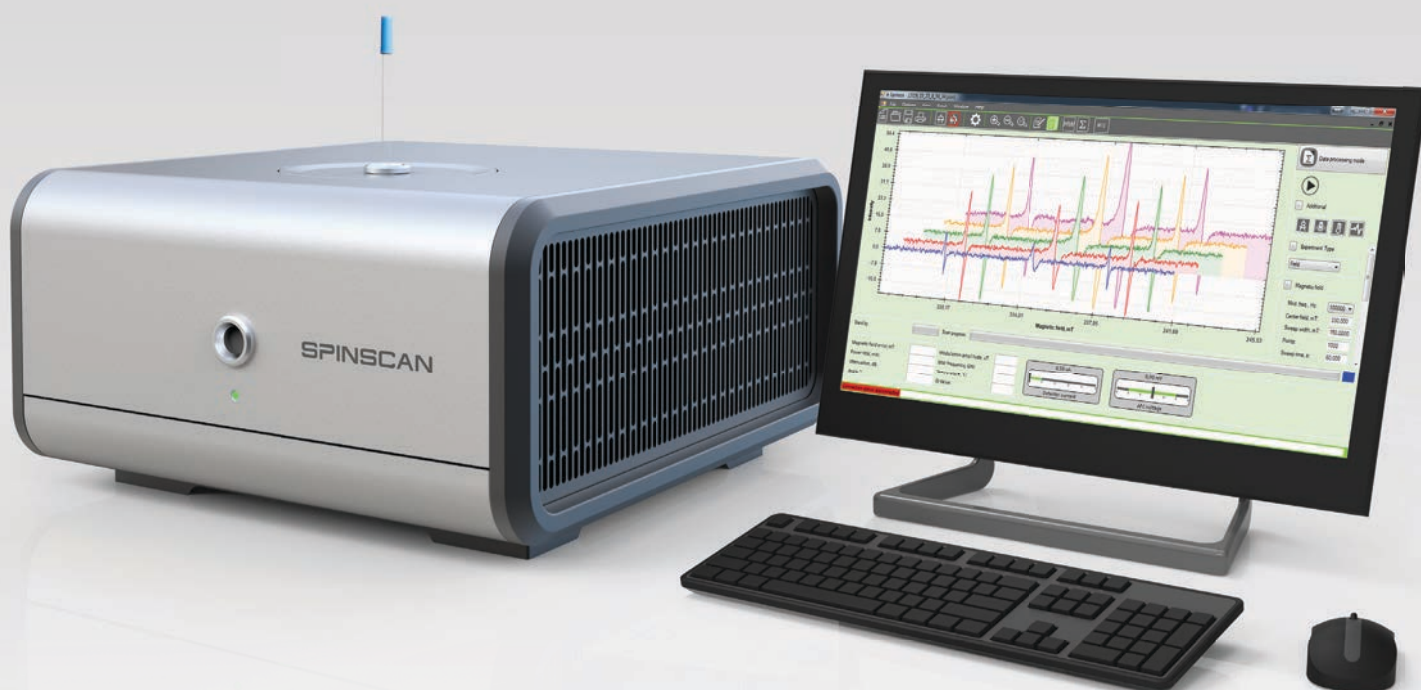




READY ALANINE AND FOOD EPR
DOSIMETRY SYSTEM

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

RELIABLE QUALITY CONTROL FOR ROUTINE DOSIMETRY PRACTICE & RESEARCH

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

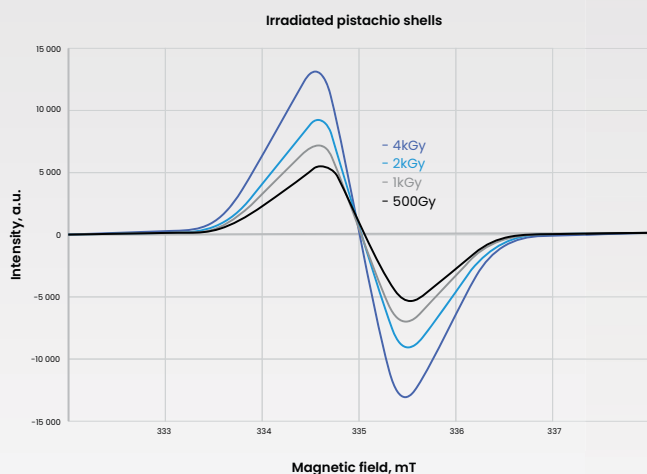
The unique high sensitive EPR technique is an effective tool both for low therapeutic and extremely high absorbed dose readout.



SPINSCAN XDS

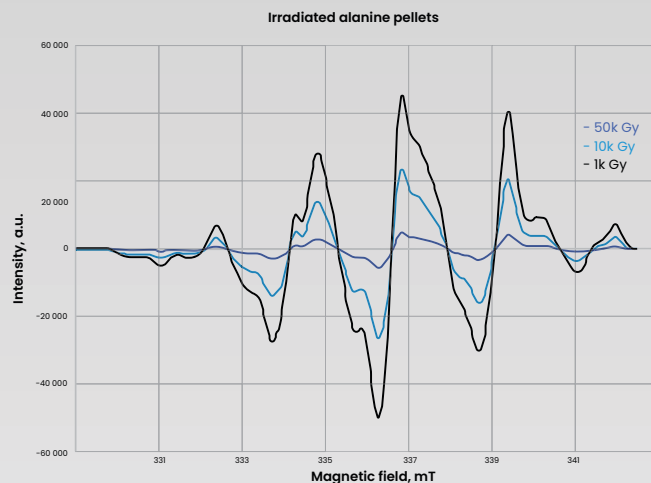
HIGHLIGHTS

- 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- automatic tuning for optimal dynamic range
- Automatic operation requiring less trained users



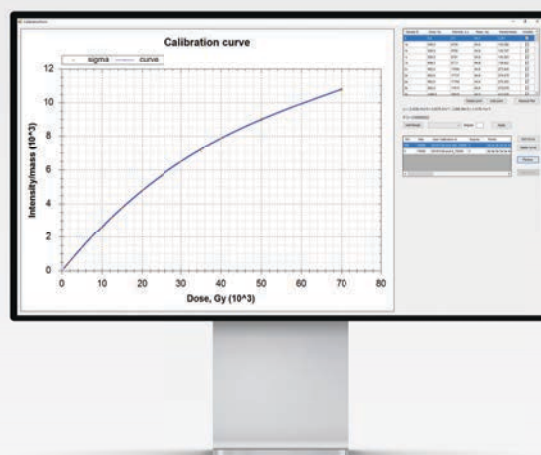
SOFTWARE KEY FEATURES

- 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



DELIVERY SET

1. Benchtop EPR spectrometer SPINSCAN XDS
2. Precise positioning dosimeter holders
3. Calibration set
4. Alanine dosimeters (loosing pellets, tape tabs etc.)
5. Software dosimetry package
6. Analytical balance (optional)
7. Bar code reader(optional)
8. Workstation



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