

The OpenText Electronic Lab Notebook Solution for Life Sciences

Ensure Effective Information Capture, Reuse, Collaboration, and Knowledge Management

Capturing, managing, sharing, and protecting the increasing volume of information in the laboratory is a challenge for any R&D organization. Managing information on paper no longer meets the day-to-day research requirements for any company. Effective information capture, reuse, collaboration, and knowledge management are impossible in a paper-based environment. Witnessing and signing a paper notebook is a manual process with limited visibility and lacking audit trails.

The OpenText Electronic Lab Notebook solution allows users to capture all R&D information electronically. Applicable to any scientific environment, its web-based interface allows scientists to enter information directly or import existing data and files. Templates ensure consistency in how scientific information is captured and organized. Integration with scientific tools and equipment ensures all information is captured. At the conclusion of an experiment, the solution's one-click publishing feature automates the entire process of publishing, approving, and witnessing the experiment; archiving the experiment for use in future research.

How OpenText Helps Manage Both Experiments and the Lab

The OpenText Electronic Lab Notebook solution provides a robust set of features that help manage all aspects of the scientific process.

New experiments can be created from pre-defined templates, ensuring consistency in how notebooks are structured and organized. Any type of file or data can be imported into the notebook or information can be entered directly into the notebook through a rich text editor. Tight integration with Microsoft® Office makes creating or editing Word® and Excel® data a simple process.

KEY BENEFITS

- Easy to use, intuitive, web-based interface
- Centralized data repository ensures data integrity
- Audit trails captured for all events
- Templates for consistency in the scientific process
- One-click publishing for witnessing and signature at experiment's end
- CFR 21 Part 11-compliant esignature and audit capabilities
- Metadata and content search promotes reuse
- Ensures awareness of who did what and when
- Ease of integration to other laboratory systems provides single point of access
- Digital notarization confirms creation and signing date

OpenText also offers a powerful search engine that makes finding existing information a simple process. Search for information based on attributes, words or data in the notebook, or natural language queries.

Since the solution is completely web-based, no software has to be installed on the local desktop. This allows researchers to collaborate from any location using only a web-browser.

The materials management feature enables users to track laboratory equipment and materials. Material quantities can be tracked, aliquots defined, and shipping requests managed automatically.

A variety of reports are provided, allowing users to track the progress of their experiments. Custom reports can easily be created via a point-and-click interface.

At the end of an experiment, the one-click publishing feature automates the entire notebook publishing and witnessing process. Scientists click a single icon, and the notebook is automatically published to PDF, reviewed, and witnessed. Pre-defined

business rules define what information is published and who reviews and signs the notebook. Detailed audit trails are kept of the entire process, and electronic signatures with full CFR 21 Part 11-compliance is supported.

Electronic Lab Notebook offers:

- Consistency in the scientific process
- Less recreation of experimental data
- Improved reuse of information
- Enhanced collaboration
- Electronic capture of information; fewer errors, less paper
- Information is easily accessible yet secure
- Information, materials, aliquots, and equipment are all tracked in one place
- Simple to deploy; no software required on individual desktops
- Reports provide visibility and accountability for every experiment
- Audit trails and electronic signatures ensure accuracy and authenticity of the electronic notebook ■

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The screenshot displays the OpenText Electronic Lab Notebook interface. The top window shows the chemical structure of acetylsalicylic acid (aspirin) with its name and chemical formula (C₉H₈O₄) and SMILES string. The bottom window shows a project overview for "0021 - Aaron Norman (anorman) Simple Synthesis of Substituted Pyrroles", including a task list and a detailed task view for "Pyrrole Synthesis".

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NORTH AMERICA +800 499 6544 ■ UNITED STATES +1 847 267 9330 ■ GERMANY +49 89 4629-0
UNITED KINGDOM +44 0 1189 848 000 ■ AUSTRALIA +61 2 9026 3400