

# Seahorse Scientific Workbench

Universal Platform for Analytical and Biological Data

Seahorse Scientific Workbench brings together analytical and biological data in one place, no matter which instruments or measurement techniques it came from.

Fully embracing the ASTM AnIML data standard, Seahorse Scientific Workbench solves many of today's experiment documentation, integration, data management and long-term archiving challenges.

## Introduction

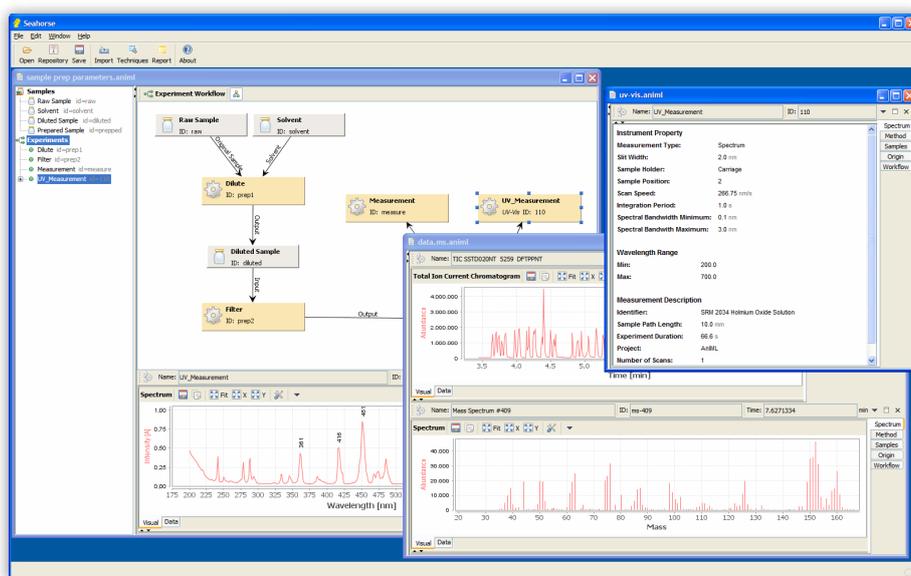
## Seahorse Scientific Workbench At A Glance

Seahorse Scientific Workbench is a standards-based software suite for capturing, analyzing and sharing laboratory data, based on the AnIML data standard.

The software offers a unified environment to work with analytical, biological and screening data in the same system, even on the same screen. It handles all common spectroscopy and chromatography techniques, along with a full range of detectors. Microplate-based assays, imaging techniques, microscopy, observational experiments, bioreactors, process chromatography, sample preparation – even clinical data can be captured as well. Each technique supports rich annotations so you can add your interpretation, assign peaks, or highlight important results.

As scientists, we are used to work with our data in different ways depending on the experimental technique used. Seahorse takes this into account and renders every experiment in the way that's most intuitive.

In pharmaceutical applications, Seahorse accompanies your compounds throughout the pipeline: discovery, development, pre-clinical and clinical data can all be represented in the same tool. Seahorse works great for environmental analyses, service laboratories, and quality control applications, too.



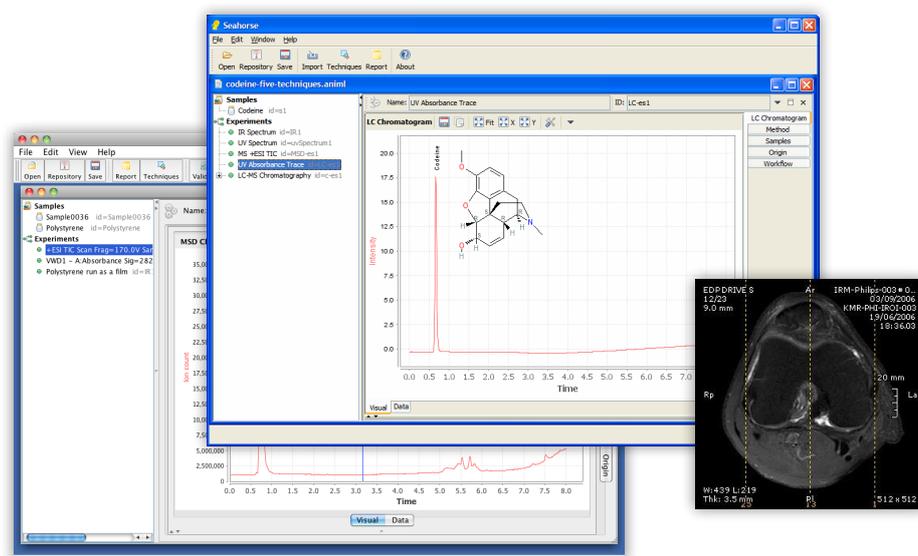
## Intuitive

## Rich Workflow-Driven Approach

Navigate your data in the way that works best for you. Seahorse offers an intuitive workflow-driven navigation model, allowing you to explore your experiments and samples, as well as the material and data flow. From this high-level overview, you can drill down to any level of detail in your data.

Open as many experiments as needed and organize them in a convenient side-by-side or overlay view. Data from different instruments will peacefully coexist on your screen. This makes data comparison and interpretation a snap.

Your data can be structured in any desired granularity. Store an arbitrary number of sample attributes. Record all of your method parameters and instrument settings. Capture your raw data directly off the instrument and store it along with fully interpreted results, images and annotations. Create reports across instruments and techniques. This thorough approach guarantees a full 360° view on your samples, experiments and laboratory processes.



## Instrument Support Tightly Integrated With Instruments

Seahorse Scientific Workbench lets you use original vendor data files transparently in your workflow – without opening the original instrument software. We support many vendor formats, as well as standard formats such as ANDI/AIA, AnIML, CSV, GAML, JCAMP-DX, mzML, mzData and SEDD.

Adding instruments is easy. Just install a new converter or use our cloud conversion web service.

## Enterprise Integration LIMS, ELN and Workflow Integration Made Easy

Use the rich instrument connectivity capabilities of Seahorse Scientific Workbench for the benefit of your LIMS or ELN. For each type of experiment, you graphically map the data you want to propagate to your other data systems. Once configured, your data travels through a single standardized interface. This means no more integration projects for every new instrument, significantly lowering the cost of system integration.

Seahorse Scientific Workbench easily fits into your existing environment. It connects with workflow management and laboratory execution systems, allowing it to be part of a enterprise workflows. It can also use your scientific data management systems (SDMS) as a backend.

## Open Platform Ready To Grow With You

Seahorse Scientific Workbench is an open platform. New functionality can be added using an open plugin interface. You can do this yourself or by leveraging BSSN Software professional services. The interface is open to third-party software vendors. Check our website for available plugins.

## Performance Optimized For Large Data Sets

Dynamic Document Streaming technology lets you work with data sets larger than the physical memory in your computer. Even gigabyte-size documents open up instantly – no matter whether they are stored on your local computer or in a remote repository.

## AnIML

### The Future Of Analytical Data – Today

The Analytical Information Markup Language (AnIML) is an emerging data standard that allows for storing and sharing of experiment data. With Seahorse Scientific Workbench, scientists can accurately record and document laboratory workflows and results in AnIML, no matter which instruments or measurement techniques were used.

AnIML has its roots in analytical chemistry and is growing into other scientific domains. The standard is maintained by the ASTM E13.15 subcommittee on analytical data, with members from industrial, academic, government and vendor communities.

Seahorse Scientific Workbench is the first full commercial implementation of the AnIML standard. Any data created is saved in the standard AnIML format, making it easy to share and archive.

## BSSN Software

### The AnIML Company

BSSN Software is widely recognized as the leader in AnIML technology. Involved in AnIML since 2003 and having architected the AnIML data model, BSSN Software is ideally positioned to deliver first-class AnIML tools and excellence in professional services.

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