

PURELAB® Pulse delivers reliable water quality and quantity for a wide range of applications

Cenix Bioscience, Germany



The aim was to supply high quality pure water for autoclaves, the rinsing of equipment such as plate washers and to feed the ELGA PURELAB Ultra Genetic for RT-PCR, cDNA production.

Background

Founded in 1999, Cenix BioScience was the first biotechnology company to focus specifically on accelerating the application of RNAi gene silencing technology for the identification and characterization of human genes for the development of new medicines. Cenix carry out complex industry and academic research projects on a wide range of major diseases, and have successfully completed studies for major clients such as Bayer-Schering, Merck-Serono and AstraZenica.

Diverse water purification requirement

The PURELAB Pulse provides pure water for a wide range of facilities and equipment throughout the site. Water from the main supply to the building is fed to the PURELAB Pulse and then to a 70L reservoir tank – which holds about 1-2 days' supply of water. From there it is pumped via a 200m ring-main to the various laboratories and the PURELAB Ultra Genetic for the most sensitive applications.

The reliability of the PURELAB Pulse is crucial to the efficient operation of the business. As the only source of deionized water (in large quantities) to the labs, a failure of the system would exhaust supplies after only 1 or 2 days. In the short term water could be ordered from their central media kitchen, but this would incur additional costs. The PURELAB Ultra Genetic could also continue to be run, but running costs would again be much higher.

“For the foreseeable future the water quantity and quality from the PURELAB Pulse meets all our needs. In addition the ELGA service department is always available and is very competent. On site response time from an ELGA technician is very good and the service available by phone is also helpful and has saved Cenix money.”

Customer View

Keeping the autoclave running is paramount

As important as these issues are, the single biggest problem caused by failure would be feeding the autoclave. Without pure water from the PURELAB Pulse the autoclave could not be run, causing safety issues, as Cenix have to autoclave (by law) all the



S2 waste in their facilities. Waste storage is limited, so if there's nowhere for the waste to go they would eventually have to stop work.

Pure Water from the PURELAB Pulse is also used in rinsing the plate washer. Purity is important for this application as the needles can get blocked with salts left over in the water, and there is a risk of the plates getting contaminated. The plates are incubated for 2 days before starting tests so poor microbiological purity would result in an increased number of plates being discarded before they could be used for tests. Given the important role of the PURELAB Pulse it is very reassuring for Cenix to know that there have been no problems with the PURELAB Pulse since it was installed in May 2007.

More Information

To find out more about ELGA LabWater's water treatment technologies and solutions for analytical applications, visit www.elgalabwater.com