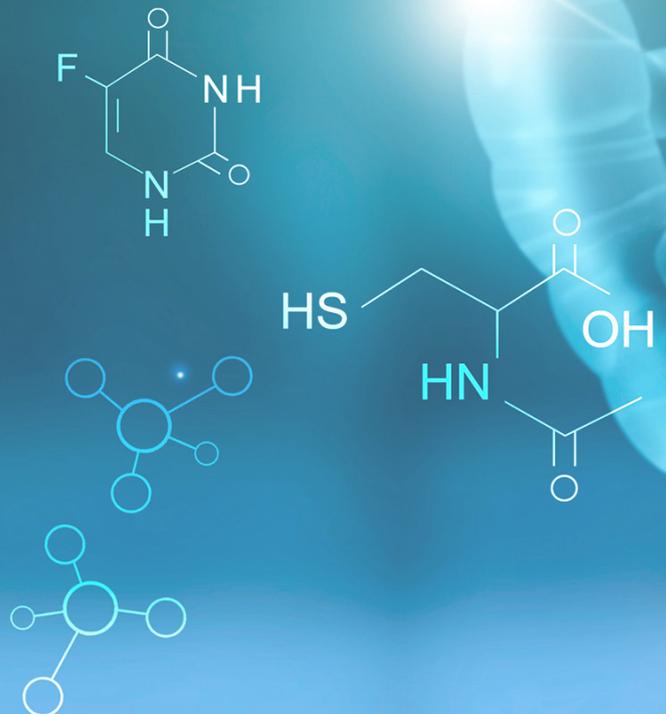


CASE STUDY

# PURELAB<sup>®</sup> Pulse delivers reliable water quality and quantity for a wide range of applications

Cenix Bioscience, Germany



## CASE STUDY

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

**Cenix Bioscience, a biotechnology company specialising in gene silencing technology for the development of new medicines. The PURELAB Pulse is utilised by them to supply high quality pure water for a wide range of applications, providing essential support to their most important analyses and playing a vital role in keeping their autoclaves running.**

### Aims & Challenges

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.

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.

### Diverse water purification requirements

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.



## CASE STUDY

# Conclusion

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.

"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*



# Dedicated to Discovery

[info@elgalabwater.com](mailto:info@elgalabwater.com)/[www.elgalabwater.com](http://www.elgalabwater.com)

ELGA Labwater are specialists in the engineering,  
service & support of water purification systems.

Unrivalled product design has achieved  
international recognition and awards.

Worldwide technical service teams support science  
& healthcare globally with specialist expertise.

Global digital performance monitoring from  
Hubgrade ensures laboratory work is uninterrupted.

A global supply chain supports clients  
from regional centres on every continent.

To find your nearest ELGA representative,  
go to [www.elgalabwater.com](http://www.elgalabwater.com) and select  
your country for contact details.

Elga Global Operations Centre.  
tel: +44 (0) 203 567 7300  
fax: +44 (0) 203 567 7205



Hubgrade



OVER 70 INTERNATIONAL PATENTS