

CASE STUDY

LS Scientific & ELGA deliver UltraPure water to the NAFDAC Laboratory

Lagos, Nigeria

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Project Background

ELGA & [LS Scientific](#) recently embarked on an innovative project to deliver continuous and reliable supply of Ultrapure water to The National Agency for Food and Drug Administration and Control ([NAFDAC](#)) for use in their laboratory.

[The National Agency for Food and Drug Administration and Control \(NAFDAC\)](#) is a federal agency under the Federal Ministry of Health that is responsible for regulating and controlling the manufacture, importation, exportation, advertisement, distribution, sale and use of food, drugs, cosmetics, medical devices, chemicals and packaged water in Nigeria.

The formation of NAFDAC was inspired by a 1988 [World Health Assembly](#) resolution requesting countries' help in combating the global health threat posed by [counterfeit pharmaceuticals](#).

It was established to checkmate illicit and counterfeit products in Nigeria in 1993 under the country's health and safety law, with the goal of eliminating counterfeit pharmaceuticals, foods and beverage products that are not manufactured in Nigeria and ensuring that available medications are safe and effective.



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The Project

NAFDAC needed a reliable and trusted partner that could deliver a continuous supply of Ultrapure water with a low conductivity of $< 0.1 \mu\text{S}/\text{cm}$ from tap water, in their laboratory. This is especially for their HPLC and LC-MS applications and daily output.

Hence, it was critical for their applications that the water purification unit could provide treated water of $< 0.1 \mu\text{S}/\text{cm}$, up to 8 l/hr, $< 0.1 \text{CFU}/\text{ml}$ bacterial level and neutral in terms of the pH.

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The Solution

After a rigorous selection process and based on the huge support received from LS Scientific, NAFDAC made the decision to proceed with the [PURELAB® Chorus 1 Complete 10 L/H](#) and 60 litre Reservoir.

The PURELAB® Chorus 1 Complete has assisted NAFDAC laboratory in the following ways:

- Reduced the cost of purchasing bottled HPLC Grade 1 water and time spent doing so.
- Reliable supply of ULTRA pure water which has improved the performance of their laboratory analysis especially in daily LCMS & HPLC applications.
- Eliminated the need to dispose large water bottles which has had an impact on their environmental footprint.
- They have been able to obtain higher precision in results due to low conductivity of the purified water supplied by ELGA's PURELAB® Chorus 1 Complete.

Customer Testimonial

"The Chorus 1 Complete 10 L/H & PURELAB® Chorus 60 Litre Reservoir is very effective and working perfectly well."

*Dr. Charles Nwachukwu Uchenna
NAFDAC Director of Food Central
Laboratory, Oshodi - Lagos, Nigeria*



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