VEOLIA STREAMLINES TOC AND CONDUCTIVITY TESTING FOR BIOTECHNOLOGY LAB

CASE STUDY | Biotech

| The client's needs

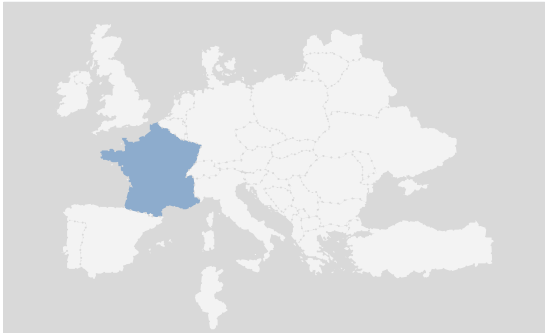
Total Organic Carbon (TOC) and Conductivity measurements are required by Pharmacopea for the Purified Water (PW) and Water For Injection (WFI), in accordance to the US Pharmacopoeia (USP) <645> and European Pharmacopoeia (EP) 2.2.38 for Conductivity and USP <643> and EP 2.2.44 for TOC in order to release water, batch and the guarantee the patient safety at the end.

However, prior to engagement with Veolia, **the facility had been carrying out its testing manually**. This required two separate tests for TOC and conductivity, each with a lengthy process involving collecting samples, testing, recording data and then waiting for results to be reviewed and approved. This used up **a substantial amount of analyst time each day and consumed resources** that the customer wanted to utilise elsewhere.

| The solution

When looking for a solution, the customer considered **Veolia's M9 Laboratory** with an autosampler for simultaneous TOC and USP/EP Stage 1 conductivity analysis. The customer conducted thorough testing and verification to ensure that the platform and the Dual Use Conductivity and TOC (DUCT) vials would be suitable for its use. The results demonstrated **that the method of testing employed by the M9 Laboratory was accurate**, precise and linear, providing the ideal solution for its laboratories.

An advanced piece of technology, **the M9 Laboratory requires just two minutes per analysis.** What's more, with automated calibration, verification, and data analysis, the M9 Laboratory is designed to optimise the process of testing and recording samples. **Compliant with Data Integrity and 21 CFR Part 11**, the data handling capability of the technology facilitates seamless recording of results and simplifies water compliance.



France

| The client

A **French Biotechnology Company** was looking for a testing platform for both TOC and conductivity that would increase efficiency, streamline processes, and enable results to be fully compliant with Data Integrity, to be exported into a LIMS system.

4h/analyst per day saved

"The benefits to the customer on this project were plain to see. By digitising its quality control processes with our technology, the customer was able to make significant time savings, which in turn contributes to an overall cost saving. The M9 Laboratory's ability to run TOC and EP/USP Stage 1 conductivity simultaneously has had a very positive impact on the workflow of the customer, and its compatibility with their LIMS has helped to make the transition from manual to digital testing much smoother for the analysts."

Fabienne Tissandier, *Sievers Sales Director*

| Results

As a result, **the customer was able to save approximately four hours per analyst per day** by adopting the M9 laboratory. The streamlined process removed the need for different tests for TOC and conductivity and simplified the recording of results, cutting out the possibility of transcription errors and freeing up time for analysts to devote to other tasks.

The efficiency benefits of the technology were enhanced further by **the M9 Laboratory's compatibility with the customer's Laboratory Information Management Software (LIMS)**. Consequently, all results that met or exceeded the stringent water purity requirements were automatically made available for review and approval. This enabled the entire workflow to be totally paperless, which not only simplifies the process and further reduces the chance for human error but also provides an environmental and cost benefit for the customer.

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