

Moving from IFE Gel to Immunotyping Capillary Testing increases productivity and reduces errors in M-protein identification

Medium to high-volume laboratories that exclusively use gel electrophoresis for Immunofixation [IFE] testing can face a number of inefficiencies, including:

- Significant employee hours spent manually pipetting patient samples onto the gel
- Excessive hands-on time [HoT] that decreases productivity and increases errors
- Lengthy wait states, particularly during the analysis phase

To combat these productivity deterrents, Sebia conducted a study that incorporated its capillary Immunotyping [IT] solution into the test lab's gel IFE set up, while reducing four gel instruments and a liquid handling system to two capillary instruments.



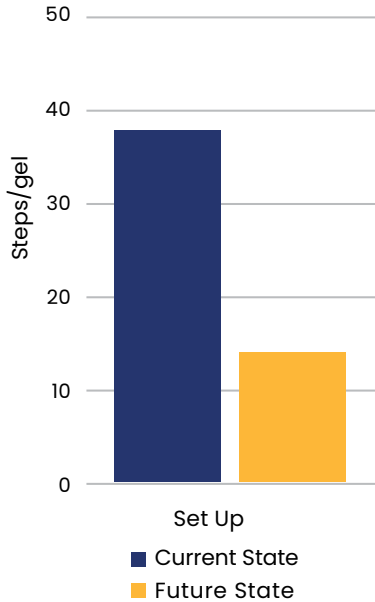
Integrating capillary technology for IT testing increases sample throughput and operator productivity through automated sample handling - including barcode reading, sample dilutions, and antiserum application - and instrument management - including QC protocol, setup, and shutdown - as well as simplified reagent setup.

Workflow simplification with Capillaris 3 Tera



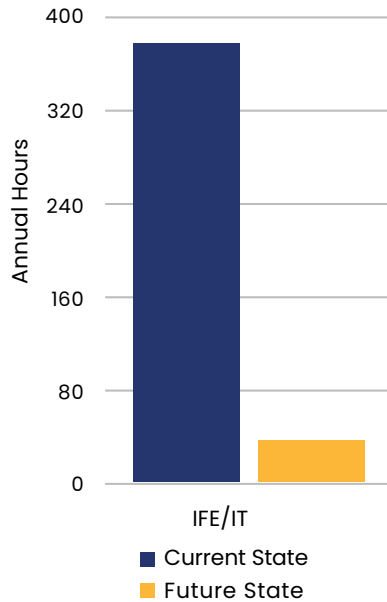
In this study, adding the Capillaris 3 Tera instrument simplified the lab's workflow by **63%** to **improve overall efficiency**, allowing the lab to report results **3 hours and 45 minutes sooner**.

Process Step Reduction



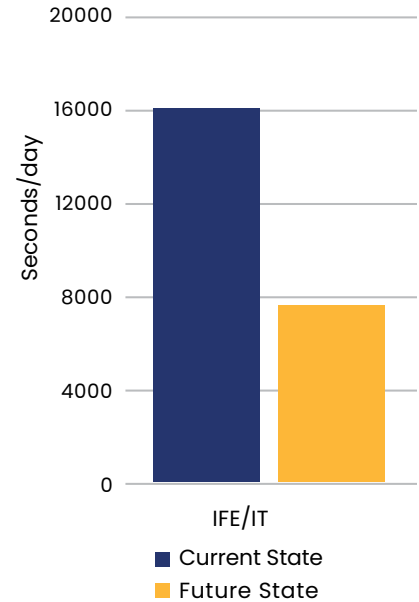
Process Step Reduction
This lab achieved an **88% step reduction** rate after migrating to IT from their IFE testing

Hands-on-Time Reduction



HoT Reduction
A **95% reduction** in hands-on-time improves productivity and reduces errors

Analysis Time Reduction



Analysis Time Reduction
Analyzing time **reduced by greater than 50%** with three fewer analyzers

Key Takeaways

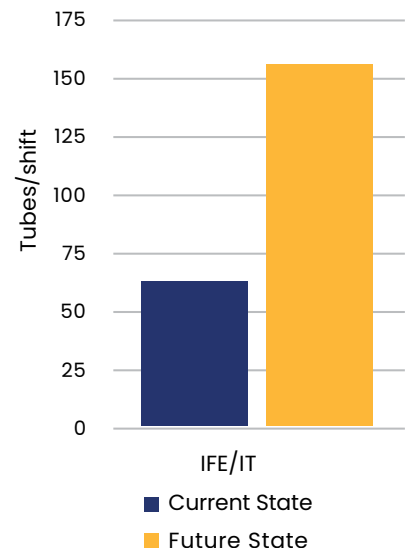
Medium to high-volume labs save time by processing more patient samples with fewer analyzers

This study demonstrates that moving from gel IFE to Immunotyping **improved** this lab's **throughput by 148% with two fewer analyzers**. With the test lab's improved workflow, they will be able to accommodate an annual **growth rate of 44% for IT testing** while still reporting results up to 2 hours sooner.

When exclusively using gel IFE, the lab could not deliver IFE results to pathologists in a timely manner. The addition of the Capillarys 3 Tera now allows techs to process more samples in less time, giving them extra time to accomplish additional tasks.

The data presented here came from a reference lab that processes approximately 13,000 IFE tests annually. To learn how Sebia's new Capillarys 3 Tera can help your medium to high-volume lab to complete more Immunotyping tests in less time, please contact your local Sebia sales representative or email salesadmin@sebia-usa.com.

Throughput Improvement



Test lab achieved **2.5 times higher productivity** by introducing the Capillarys 3 Tera