

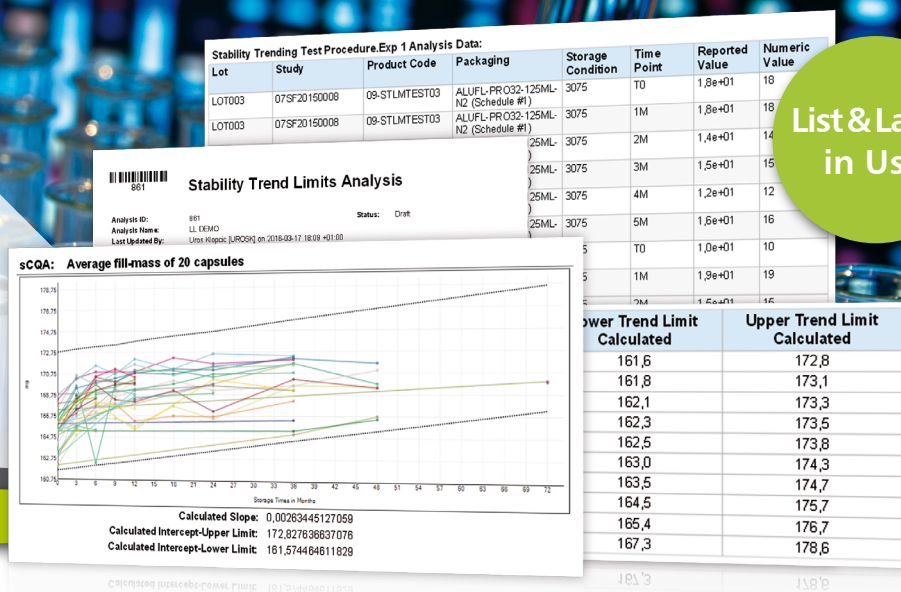
# Success Story

combit List & Label | Epiatech

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## State-of-the-Art Reporting in High-Tech Labs



### Challenge

- ✓ Detailed evaluation of data from Oracle database for laboratory purposes
- ✓ Appealing reports with diverse barcodes and graphics
- ✓ Automatic storing of new reports in the database

### Success

- ✓ Limit Manager documents and analyzes the changes in chemical substances
- ✓ Output of labels and ad-hoc reports to printer or PDF file
- ✓ Used in numerous branches around the world, each with more than 30 users

## Company Profile

Bubbling flasks and foaming test tubes — these are some of the typical visions one has when reminiscing over laboratories from days gone by. Today's lab rooms look different. In today's pharmaceutical companies, high-tech is king. To be successful in our modern age, it is essential to analyze lab results professionally. For precisely this reason, Epiatech from Ljubljana, Slovenia develops software for QA/QC divisions that allows them to fully exploit the information potential in this data.

The team of developers has more than 15 years of experience in laboratory IT. Its main focus is on developing information and management systems for laboratories. Epiatech's customers include global pharmaceutical leaders such as Johnson & Johnson.

## Business Needs

A renowned pharmaceutical company assigned Epiatech with the task of developing a solution for querying and analyzing lab results from an Oracle database. In addition to generating attractive reports with compelling tables and graphics, this solution was also to offer complex label printing with QR codes. It should be possible to print the results on paper or save them to a PDF file. Epiatech was also asked to develop a function for automatically saving the report back in the database without the need for any user interaction. To do this, Uroš Klopčič, Lead Engineer at Epiatech, looked for a reporting tool that allows users to create and design reports in a user-friendly manner. The design and structure of the reports needed to be intuitive and straightforward to minimize errors and future maintenance. It was particularly important to have a clear separation between the data and the report design in the reporting tool. Klopčič also greatly valued comprehensive documentation and reliable support from the manufacturer.

## Reporting Solution

Uroš Klopčič became aware of List & Label while redesigning a VB6 application for .NET. Since reports were previously created using CleverPath, he had to find an alternative that worked smoothly with the .NET framework. "Luckily, we found List & Label," recalls Uroš Klopčič on recounting his extensive search. "After starting with List & Label 16, we very quickly learned how to use it." After briefly studying the documentation and examples, he was able to develop a prototype for the entire application after just two weeks. The developers at Epiatech wrote the custom software solution using Microsoft Visual Studio. An Oracle database was used. The final product — one that delivered all of the required features — was ultimately named Limit Manager. Limit Manager allows users to track changes in various individual values of chemical substances and to analyze them all together.



Individually configured trend limits can be calculated for various constituents and transferred to the system. In this way, the core system ensures that each new value of a substance lies within the given reference values. One of the most important customer requirements was to provide lab technicians with a function for printing out reports at any time. But before that, customers can first preview the report using a standard PDF viewer. Furthermore, reports can automatically be generated in the background once the user approves the limit values. Finally, they are exported directly in PDF format and saved to the database.

Thanks to the List & Label reporting tool, users of the Epiatech application can create reports easily and intuitively. "By using List & Label, users can now concentrate fully on production without the need to focus on details and coding," is how Uroš Klopčič summarizes the advantages of List & Label. Thanks to the comprehensive API, future expansions could later be made directly with List & Label.

## Results

Limit Manager — developed by Epiatech using List & Label — is used on a daily basis at many locations around the world. Generally, around 30 lab technicians use it at any given time. For five versions now, Epiatech has placed its trust in the reporting power of List & Label and has successfully used the

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Uroš Klopčič, IT Developer / Lead Engineer, Epiatech

tool in ten projects to date. The export and bar code functionality is used intensively in almost all reports. "It is fantastic that these functions are directly available without the need for additional programming," enthuses Uroš Klopčič. "List & Label allows us to approach our customers with more confidence," is how Uroš Klopčič summarizes the advantages of the combit reporting tool. In the future, he intends to use List & Label for all projects where reporting functionality is required. "We are now able to use this development tool extremely efficiently and the positive feedback from our customers encourages us to continue using it in future projects."

**„Thanks to List & Label we can offer our customers great reporting functionality!“**



**Uroš Klopčič**

IT Developer / Lead Engineer, Epiatech