

Development of market-ready, innovative RNase inhibitors for molecular biology and diagnostics

In frame of the project, we have developed a novel RNase inhibitor. There is a clear market need for these enzymes since they are part of commercial kits widely used in molecular biology and diagnostics. Application of RNase inhibitors in processing of RNA containing samples (e.g. RT-PCR) makes possible correct analyses preventing degradation of RNA. These processes are often used in research and human diagnostics.

According to the new technology developed, to create a market-ready, novel and innovative RNase inhibitor, we produce a protein that is more stable than the marketed inhibitors due to particular changes in the amino acid composition. Besides, we have developed a buffer system that increases the stability of the protein. As a result of the project, we have obtained a product that is competitive and even better than the RNase inhibitors on the market.

At this point, we integrated the product into our ISO system. For this purpose, we performed the SOPs of production, purification and analyses.

Our ultimate goal was that the development would deliver to us an innovative, market-ready, ISO certified product, RNase inhibitor. As it has been fully accomplished, now, we are targeting a significant market share for our RNase inhibitor. Revenue originating from this product will make the project running further without additional financing.

Project Data:

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