

RESIDUAL DNA TESTING: Homebrew vs off-the-shelf solutions

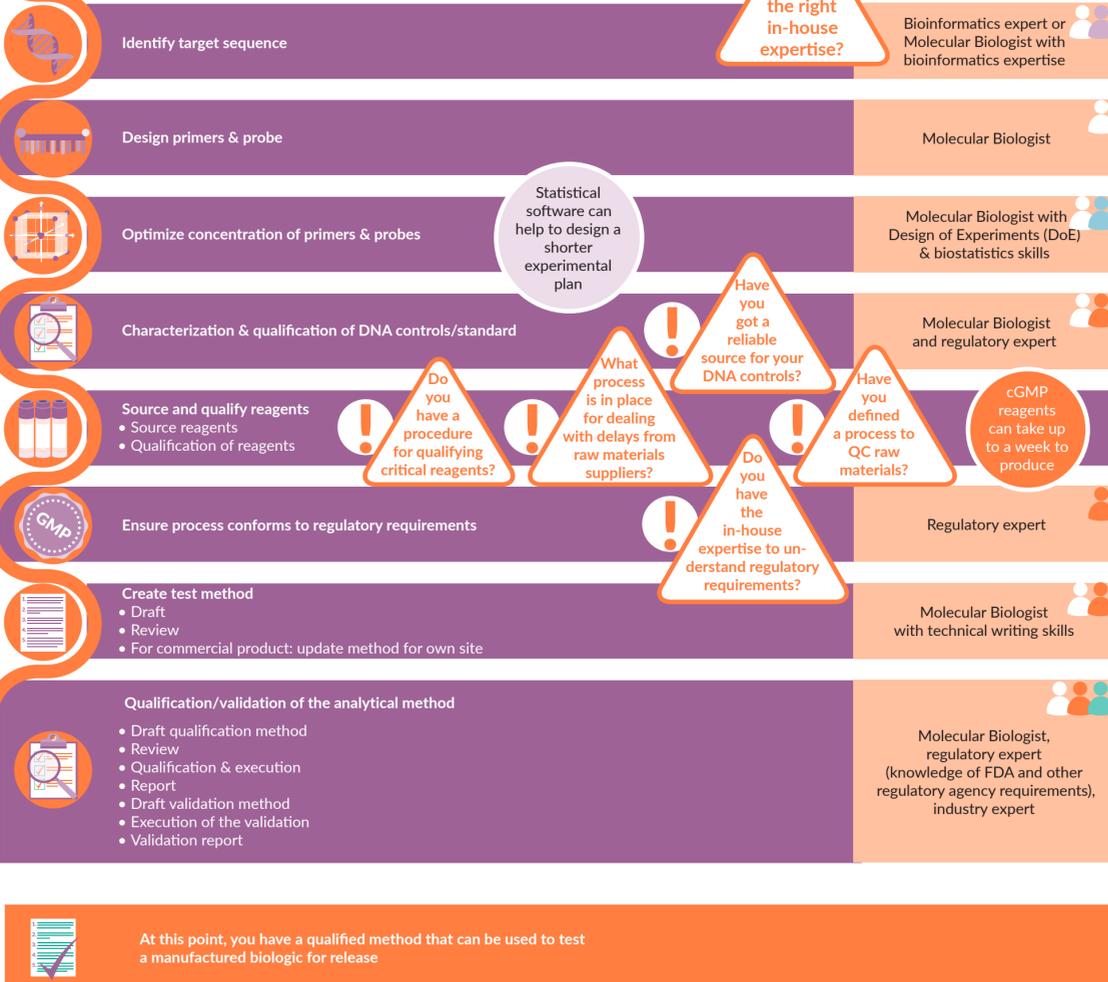
To verify product quality, the amount of residual DNA in a drug's final dosage form must meet guidelines established by multiple regulatory agencies. Each regulatory agency has specific guidelines for acceptable limits depending on the product and therapeutic modality.

Companies that produce biopharmaceutical products must verify the quantity of residual DNA impurities throughout the purification process, and in the final drug product.

Commercial kits for residual DNA testing can shorten process development time and reduce in-house staffing, overheads, and expertise requirements. This lowers risk and results in a cost-effective solution overall.

STEPS TO SETTING UP YOUR OWN RESIDUAL DNA TESTING SOLUTION

CREATE A QUALIFIED METHOD FOR TESTING A MANUFACTURED BIOLOGIC FOR RELEASE



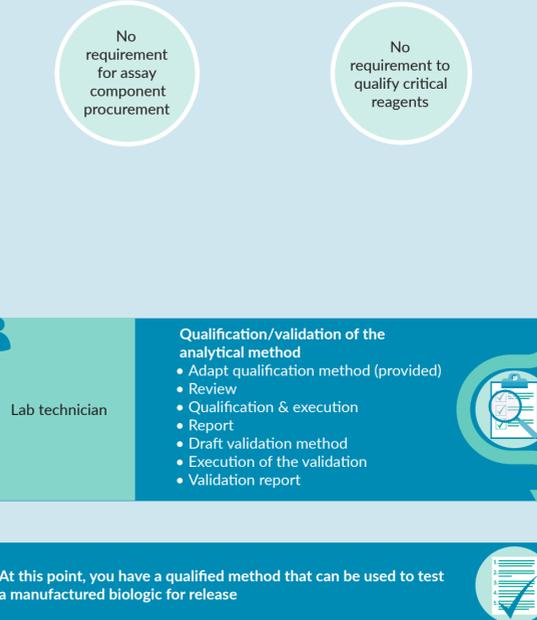
STEPS TO SETTING UP A COMMERCIAL RESIDUAL DNA TESTING SOLUTION

The Applied Biosystems™ resDNASEQ™ Quantitative DNA Kits utilize a quantitative PCR (qPCR)-based system to detect plasmid DNA and host cell DNA from various cell types commonly employed in the development of gene therapies, cell-based vaccines, and similar biotherapeutics.

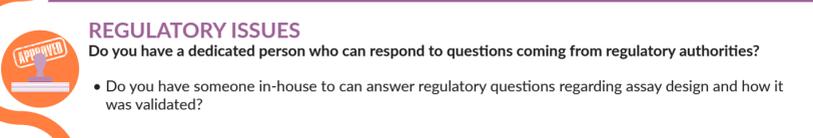
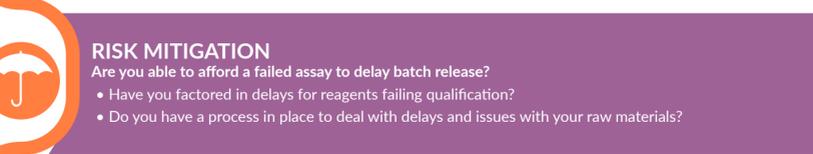
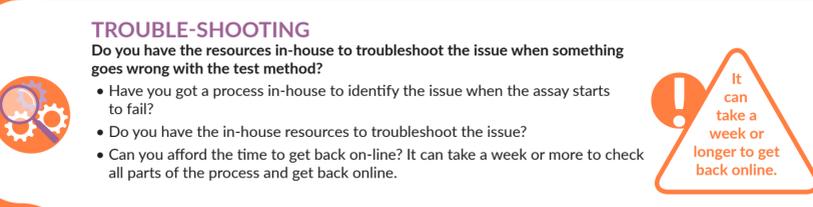
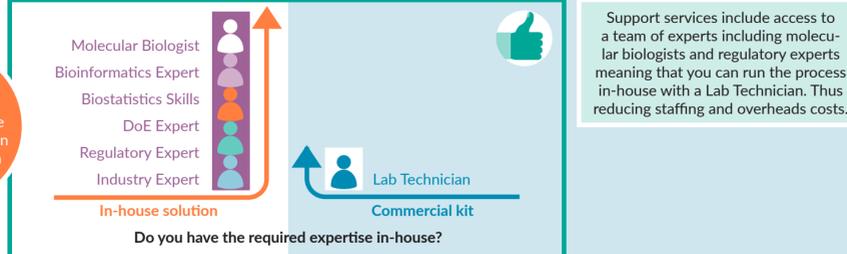
With the resDNASEQ system, you can achieve both sensitive and specific quantitation, ensuring a high level of confidence in the data obtained from a diverse range of sample types. This includes in-process samples with different sample matrices, as well as purified final products

The overall performance of the resDNASEQ method, including sensitivity, accuracy, precision, range, and linearity meets or exceeds the example described in USP <509>.

The resDNASEQ system offers a sample to result solution.



CREATING THE QUALIFIED METHOD IS ONLY THE FIRST HURDLE...



"For those convinced that creating their own assays saves money, it's time to consider the hidden expenses. Troubleshooting DIY assays can become a time-consuming and costly endeavor. Commercial DNA quantitation kits offer a reliable, ready-to-use solution, ensuring accurate results without the unexpected financial detours of assay troubleshooting."
- James Baus

When you use a commercial kit, you are covered from sample to result and everything in between. These risks are not your issue.

Access to a team of Regulatory Experts comes as part of the commercial kit.

BENEFITS OF THE THERMO FISHER COMMERCIAL KIT

	Reduced staffing and overheads in-house		Dedicated team of experts		Access to a team of experts including regulatory specialists
	Lower risk		Support from sample to result		No unexpected delays or costs
	Eliminated time needed to develop assay in-house		Cost effective		Method creation and maintenance is handled for you