



**From Assay Design
to Diagnostic
Manufacturing
—One Partner.**

Applyo Jena will be your partner for customized **assay** development, reagent **stabilization** and scalable **manufacturing** for integrated diagnostic systems.

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The Challenge: Assay development—the hidden bottleneck.

- Limited in-house capacities for bioinformatics, assay design, and validation
- Lack of internal workflows required for commercialization of diagnostic products
- Need to coordinate assay design, lyophilization development and integration into cartridges and automated systems
- Complex to design a high performing, stable, and robust assay

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The Applyo Approach:

One partner across the entire development chain

Bioinformatics & Assay Design

- Complete assay development from scratch to validation
- Target identification and sequence analysis
- Tailored primer, probe and assay design
- Selection of best performing assay specific enzymes and detection systems
- Optimization of molecular, biochemical and immunological assays
- Colorimetric, fluorescence, luminescence, electrical detection or lateral flow

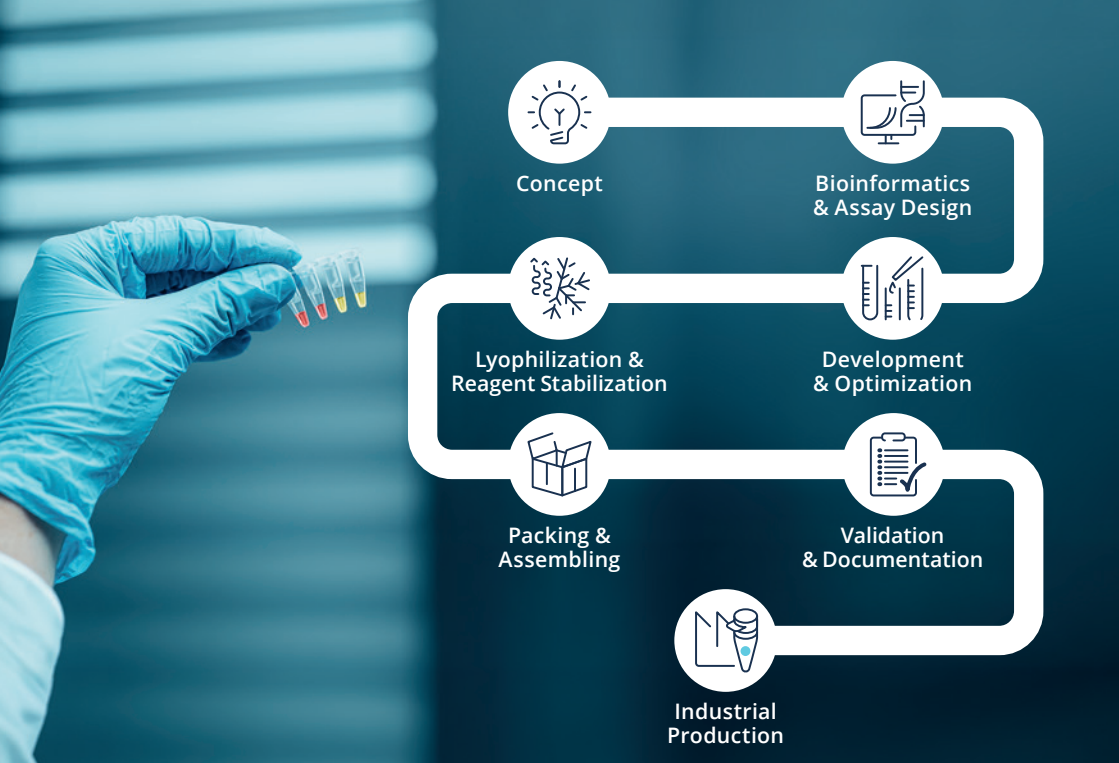
Reagent Stabilization

- Lyophilization of complete reagent systems
- Stable at ambient temperature and even > 60 °C

- Long-term stability optimization
- Mechanically robust reagent beads for automated processing
- Immediate reconstitution and consistent assay performance

Product Integration & Manufacturing

- Customized packaging concepts—bulk or prefilled in consumables
- Workflow optimization for automated and point-of-care / point-of-need applications
- Scale-up from prototype to industrial production
- Transfer into cartridges, consumables and integrated systems
- Reliable batch-to-batch consistency



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Benefits for diagnostic developers

- Faster transition from concept to commercial product
- Reduced development complexity and supplier interfaces
- Ambient-stable reagent systems for simplified logistics
- Accelerated industrialization and market launch
- Reliable transfer into automated and point-of-care platforms
- Flexible manufacturing concepts tailored to project needs

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Why partners work with **Applyo Jena**

- 15+ years of experience developing diagnostic systems
- Proven expertise spanning bioinformatics, assay development, lyophilization and manufacturing
- Unique, liquid nitrogen free lyophilization technology
- Successfully completed projects from start-ups to global players
- ISO 13485 compliant development and production
- Sterile and contamination-controlled assay development and production
- Agile project execution from feasibility to serial production

Contacts

Ready to turn your diagnostic concept into a market-ready product?

Applyo supports diagnostic innovators from assay design and stabilization to ISO 13485 manufacturing and product integration.

Let's build a product.

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