Primerdesign is a leading molecular diagnostic company offering custom assay design, manufacturing and development services. We have over 10 years of experience with a proven track record in developing over 500 assays in a wide variety of applications.

Our extensive expertise results in us being a preferred partner with many molecular diagnostic companies for:

- Assay design and development
- Product development and regulatory approval
- MDx Manufacturing (ISO13485 accredited)
- Dispensing and IVD kit manufacturing
- OEM opportunities on our product range

Molecular Diagnostic (MDx) Assay Development services

Primerdesign is a world leader and an internationally recognised company for molecular diagnostic, PCR assay development and the production of high quality MDx tests.

Assay design and development

The Primerdesign team can develop molecular diagnostic assays to meet your specific requirements. We have extensive experience of molecular diagnostic assay development, encompassing both single and multiplexed assays and have developed hundreds of these in our genesig® product range. We also play a pivotal role in the development of molecular tests for a number of leading diagnostic companies.

Our experienced team work with you to create a final optimal product in a very short time frame. We assist with:

- Primer and probe design
- Prototype testing
- Prototype optimisation
- Stability studies and optimisation
- Assay verification and validation

Our proven track record driven by experts in the field of molecular diagnostics, coupled with excellent Project Management led communication, results in the smooth and quick transition of assays from the concept stage to market ready products.

We have vast experience using a large number of detection chemistries and can optimise assays with any of the following components:

- Intercalating dyes (eg. SYBR)
- Hydrolysis probes (eg. Taqman)
- Hybridisation probes (eg. Hybeacon)
- Scorpions
- Hotstart Master Mixes

We have a proven track record in developing tests for:

- Infectious Disease detection
- Rare mutation detection/genotyping assays
- Companion diagnostic tests
- Gene expression assays
- Water contamination assays
- Food contamination assays
- GMO detection
- Meat speciation testing
- Bio-threat detection
- Genetic testing/Genetic modification

Manufacturing

Primerdesign has ISO13485 certified manufacturing facilities and have

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substantial experience in manufacturing finished products that are ready for distribution. We can manufacture molecular diagnostic assays in freeze-dried, air-dried and liquid formats. We ensure your kits are made to highest quality standards and provide the following manufacturing services:

- Batch validation
- IVD kit validation
- Prototype optimisation
- Regulatory assistance and submissions
- Assay verification and validation

**OEM opportunities**

The entire Primerdesign product range is available on an OEM basis. We have a vast catalogue of tests suitable for all qPCR instrument platforms which are available under flexible licensing terms.

It would also be possible to have Primerdesign transfer and optimise any of our 500+ genesig assays to your platform (either POC or lab-based platforms).

We manufacture products for a large number of MDx companies. Each customer’s specific requirements are addressed. So whether you are an established multi-national diagnostic company or an ambitious start-up company we can deliver a high end product to your business within weeks.

We can provide:
- Complete packaging and branding solutions
- White label packaging solutions
- Items in bulk to incorporate into your own packaging protocols
- Alternative kit formats to match your requirements

**Quality systems**

Primerdesign reagents and assays are manufactured to the highest standards within our ISO9001:2008/ISO13485 quality management laboratory facility.

**Why choose Primerdesign?**

**Our Expertise:** Primerdesign is a specialist molecular diagnostic company producing high quality molecular diagnostic assays. We are leaders in the field of developing and manufacturing PCR and molecular diagnostics.

**Our Track record:** We have a proven track record and have developed over 500 commercially available diagnostic tests.

**Outstanding Service:** Primerdesign’s high level of expertise and customer focus has led to an enviable track record and impressive repeat business ratio. Primerdesign has worked with a large cross section of diagnostic companies – large multi-nationals to small start-ups and have developed long term collaborative relationships with several market leaders.

**Quality Management:** Primerdesign’s quality processes are ISO13485 certified. We ensure that all products are produced to the highest standards and implement rigid product QC procedures.

For more information and to order, please visit www.primerdesign.co.uk