

# Air-Dryable Direct DNA qPCR Blood

Designed for creating ambient-temperature stable assays from whole blood without extraction



Air-Dryable Direct DNA qPCR Blood is a glycerol-free, inhibitor-tolerant master mix that contains optimized excipients compatible with air and oven drying. It is designed for the direct quantitation of DNA from whole blood, serum or plasma.

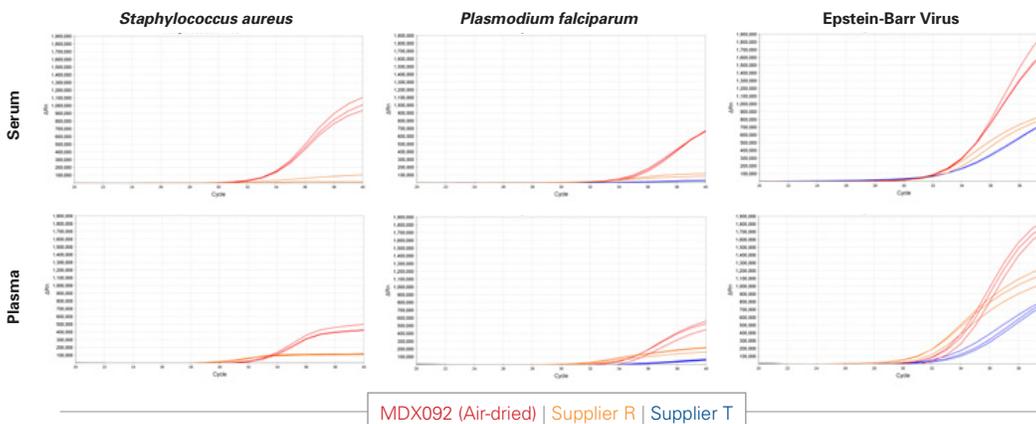
Clinical specimens, such as blood, urine or stool contain a range of PCR inhibitors which impact the efficiency of qPCR reactions. Whole blood specimens, serum and plasma are exceptionally challenging, as they contain inhibitors within the sample itself, such as immunoglobulin G, hemoglobin, lactoferrin and leukocyte DNA, as well as in the anticoagulants used to stabilize the sample (e.g. EDTA, citrate or heparin). In general, inhibitors need to be removed by performing a DNA extraction/clean-up step prior to testing.

Air-dryable™ Direct DNA qPCR Blood is the first commercially available mix that combines the benefits of inhibitor-tolerance with air-drying, making it ideal for manufacturing room-temperature stable, highly sensitive and cost-effective molecular diagnostic assays. To create ambient-temperature stable assays, primers and probes are added to the Air-Dryable™ Direct DNA qPCR Blood mix and the reagent preparation is then aliquoted into the final assay vessel (e.g. PCR tubes) before oven or air-drying (please see the product guide and FAQs for recommendations on oven drying parameters). Patient blood sample can be added directly onto the dried assay for the detection of pathogens, including viruses, bacteria and parasites with very high sensitivity.

PRODUCT	CAT NO.	VOLUME	REACTIONS
Air-Dryable™ Direct DNA qPCR Blood, 4x	MDX092	5 mL	1,000 Rxn
		50 mL	10,000 Rxn

## Product Highlights

### High reaction efficiency on plasma, serum and whole blood samples containing anticoagulants



Plasmid DNA contains the target *S. aureus*, *P. falciparum* and Epstein-Barr virus was spiked into 10% serum or 10% K2-EDTA plasma and amplified in a triplex reaction using air-dried MDX092 format (red) and kits from supplier R (orange) and supplier T (blue). The results illustrate higher end fluorescence and better sensitivity with MDX092 than with mixes from supplier R and T.