

Cell-free DNA reference standards, 1/16

January 2016—Horizon Discovery Group introduced its cell-free DNA (cfDNA) HDx Reference Standards. The reference standards enable researchers to demonstrate the performance of their cfDNA assays by providing a reproducible, consistent, and reliable source of reference material for their development and evaluation.

Created from engineered cell lines, cfDNA Reference Standards are available in both singleplex and multiplex formats with cancer-relevant mutations including BRAF, EGFR, KRAS, NRAS, and PIK3CA. These reference standards consist of human genomic DNA fragmented to 160 bp, representative of plasma-derived cfDNA, and are provided as a set of precisely defined allelic frequencies from as low as 0.1 percent. A matched wild type is included.

These highly characterized standards are able to feed directly into any cfDNA workflow from whole-genome, whole-exome, or amplicon-based NGS sequencing to qPCR and ddPCR platforms. Applications include assay validation, establishing standard curves, quantifying background noise, and defining the limit of detection of a workflow.

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