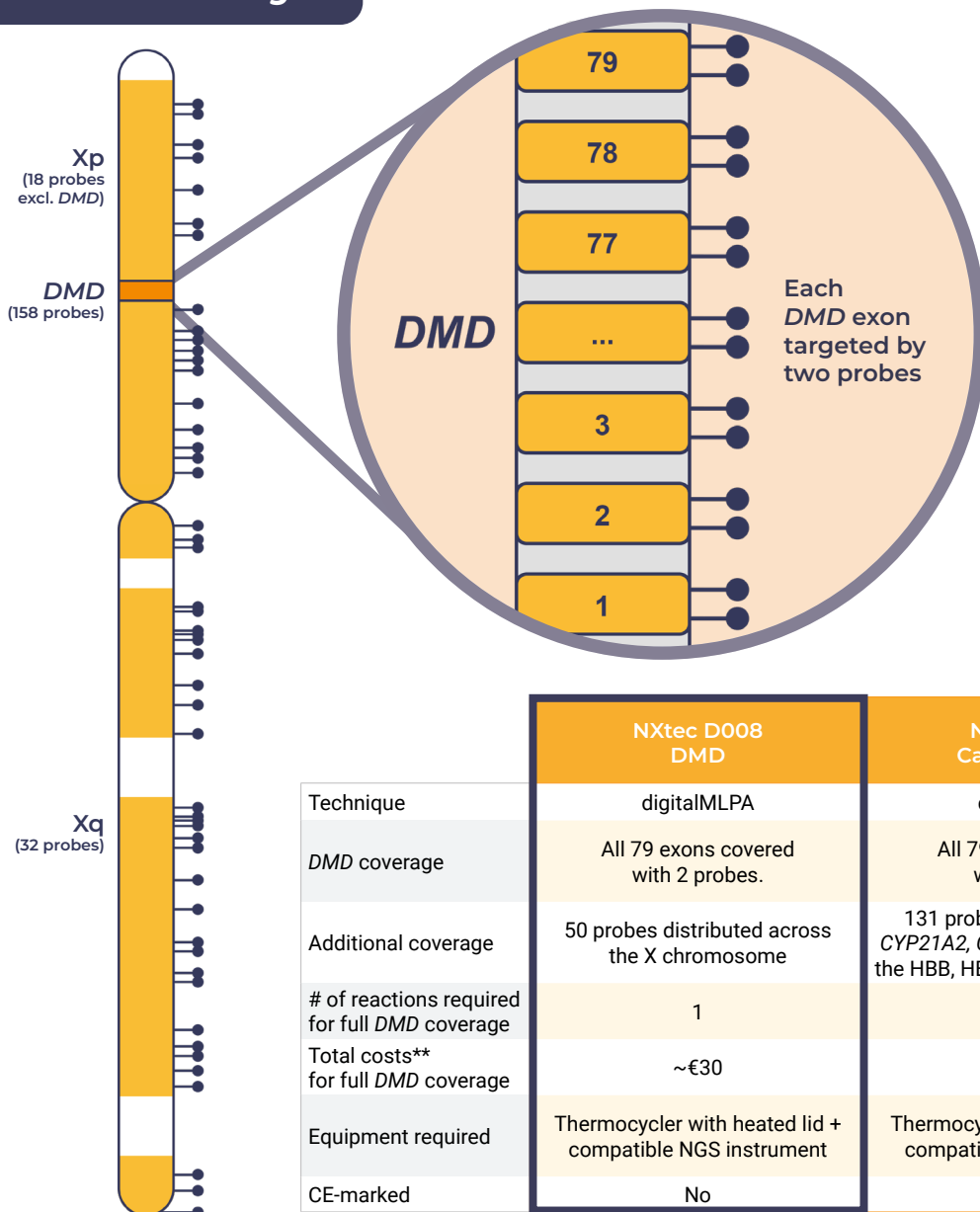


Gold standard certainty for CNV detection in DMD

NXtec D008 DMD delivers highly reliable detection of CNVs linked to Duchenne and Becker muscular dystrophies. Covering the entire *DMD* gene at single-exon resolution, this digitalMLPA assay provides comprehensive results in just one reaction.

- ✓ **Comprehensive:** each *DMD* exon targeted by two probes
- ✓ **Specific:** high-confidence CNV detection from single exon to whole-gene changes, including larger X-chromosome CNVs, and whole X-chromosome aneuploidies
- ✓ **Versatile:** robust performance on DNA from different sample types*
- ✓ **Low cost:** <€30 reagent costs per sample**
- ✓ **Fast:** <24 h from sample to sequencer, with minimal hands-on time
- ✓ **Simple analysis:** free and easy-to-use software, no bioinformatics expertise required

Panel Coverage



Required materials

- As little as 20 ng of sample DNA
- Thermocycler with heated lid
- Compatible NGS instrument, flow cell, and reagents
- digitalMLPA NXtec probemix, reagents and barcode plates

- *DMD*: target gene
- Targeted X-chromosome regions
- Non-targeted regions
- Probe

Panel Comparison

	NXtec D008 DMD	NXtec D028 Carrier Panel 1	SALSA MLPA probemixes P034 DMD Mix 1 & P035 DMD Mix 2
Technique	digitalMLPA	digitalMLPA	MLPA
<i>DMD</i> coverage	All 79 exons covered with 2 probes.	All 79 exons covered with 1 probe.	All 79 exons covered with 1 probe; additional probes for exon 1.
Additional coverage	50 probes distributed across the X chromosome	131 probes targeting <i>SMN1</i> , <i>CYP21A2</i> , <i>CFTR</i> , <i>CLN3</i> , <i>CTNS</i> and the HBB, HBA and DFNB1 regions.	-
# of reactions required for full <i>DMD</i> coverage	1	1	2
Total costs** for full <i>DMD</i> coverage	~€30	~€35	~€30
Equipment required	Thermocycler with heated lid + compatible NGS instrument	Thermocycler with heated lid + compatible NGS instrument	Thermocycler with heated lid + compatible capillary electrophoresis instrument
CE-marked	No	No	Yes (IVDR)

* Tested on DNA from healthy and positive peripheral blood samples, and healthy amniotic fluid (23-30 weeks) and CVS samples (12-19 weeks).

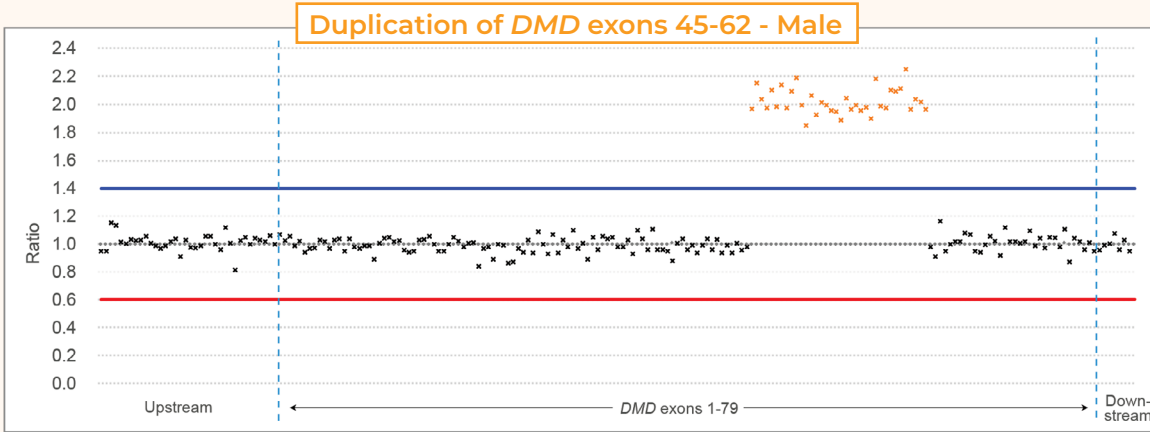
** Costs based on list prices. Prices may differ when ordering through our sales partners.

Coffalyser digitalMLPA™ data analysis software

Free software that processes FASTQ files, runs QC, and delivers clear CNV reports

This software is suitable for all digitalMLPA NXtec assays, including our panels for hereditary cancer, acute lymphoblastic leukemia, carrier status analysis and more!

NXtec D008 DMD detects CNVs in *DMD* and whole X-chromosome aneuploidies



Ratio 1.0 = normal copy number.

Values beyond **blue/red** thresholds indicate duplications/deletions.

Grey diamonds = probe ratios of reference samples.

black/orange crosses = probe ratios of test sample (normal/aberrant).

DNA samples used: Coriell NA05123, NA05169, NA23094, NA20027 (top-bottom).

