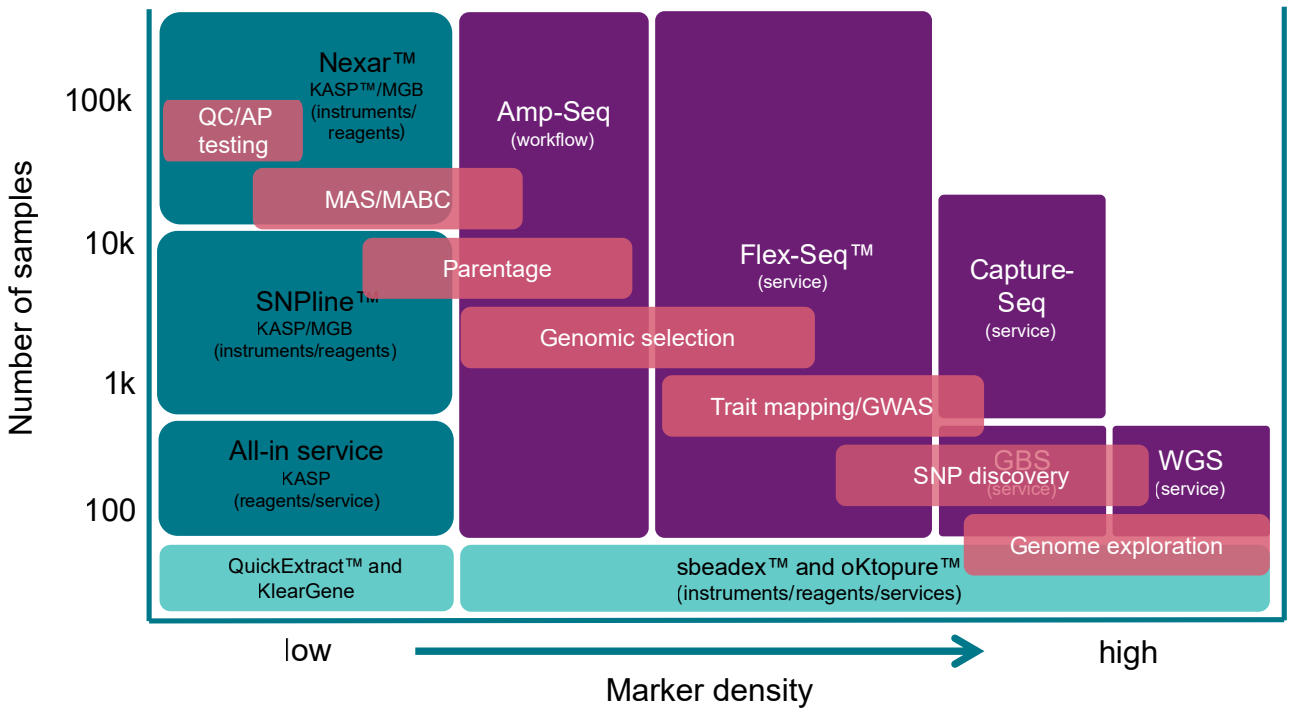
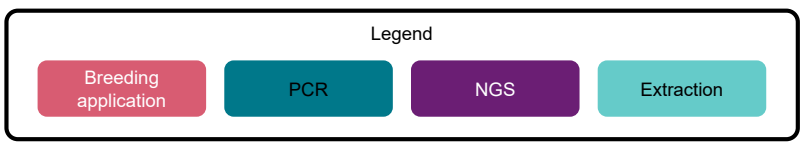
Support at every stage of your breeding programme

Overview of genotyping solutions from LGC Biosearch Technologies

Our experienced scientific team partner with you and advise on the optimum method or platform to achieve your breeding programme goals.





BIOSEARCH™ TECHNOLOGIES
GENOMIC ANALYSIS BY LGC

Our wide range of genotyping solutions helps address the specific needs of your project at every stage.

High-throughput genotyping solutions

	KASP	Amp-Seq	Flex-Seq	Capture-Seq	GBS	WGS
Technology	PCR (fluorescent readout)	Targeted genotyping by sequencing (GBS) based on amplicon sequencing (NGS readout)	Targeted GBS based on probe hybridisation (NGS readout)	Targeted GBS based on in-solution hybridisation-based capture (NGS readout)	Restriction enzyme-based genotyping by sequencing (NGS readout)	Whole genome sequencing (NGS readout)
Technical applications	Targeted genotyping	Targeted genotyping	Targeted genotyping	Targeted genotyping	Targeted genotyping	Genome exploration
Agricultural biotechnology applications	QA/QC, MAS, MABC, Parentage	MAS, genomic prediction, parentage	Genotyping, genomic prediction, haplotyping, MAS, MABC, parentage	Genotyping, haplotyping, genomic prediction, marker discovery, insertion site characterisation, GWAS	Marker discovery (untargeted)	Full genome marker discovery, allele mining, skim sequencing, structural analysis
Upper marker number density	Hundreds	Thousands	Tens of thousands (genotyping)	Hundreds of thousands (genotyping)	Tens of thousands (discovery)	Whole genome
Pre-defined content	Human, rat, mouse, wheat, maize, tomato and others	-	Several, e.g., Blueberry, Cattle, Corn, Cotton, Pig, Soybean	-	-	-
Min. sample number	48+	1,536+	96+	96+	12+	12+
Kit/service	Master mix, assays and Instruments	Reagent system + analysis pipeline	Service	Service	Service	Service
Lab service sites	Hoddesdon (UK)	N/A	Berlin (DE), Gainesville, Middleton (US)	Gainesville (US)	Berlin (DE)	Berlin (DE), Gainesville (US)
Input DNA requirement	Low quality/crude	Low quality DNA compatibility options	Medium to high quality	Medium to high quality	High quality	High quality
Default service TAT*	2 weeks	-	2-4 weeks	6-8 weeks	6-8 weeks	8-12 weeks
Default protocol TAT**	80-90 minutes	180-240 minutes	-	-	-	-

* Turnaround time excl. assay design and DNA extraction. ** excl. assay design, DNA extraction and sequencing, fast turnaround time options available

Contact your sales representative today.

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