

# Maize Industry-grade Breeding Array 10K

Made in China with Full Intellectual Property Rights (On microarrays, reagent kits and microarray scanners)

# LASO BIOTECH

As China's first maize breeding microarray, Maize Industry-grade Breeding Array 10K is designed with probe sequences derived from resequencing data of nearly 500 maize inbred lines, covering core germplasm resources from both domestic and international sources, ensuring broad applicability. Probes are based on the fourth version of the B73 reference genome (B73 RefGen\_v4), allowing easy conversion to other single-marker assays or integration with other marker results.

This microarray features nearly 10,000 markers, optimized using about 200 inbred and hybrid lines, and the markers are evenly distributed across the maize genome. It boasts an average call rate of 99.3% and a reproducibility rate of 99.9%, significantly accelerating the development of high-quality maize varieties and enhancing the sustainability and economic benefits of agricultural production.

# Image: Applications Image: Authentication and Evaluation of DH Lines Backcross Selection Image: Variety Authentication (SNP Method) Image: Authentication of DH Lines Evaluation of DH Lines Eackcross Selection Image: Variety Authentication (SNP Method) Image: Detection Functional Gene Detection Genetic Map Construction Genomic Selection

### 🕅 Features



#### Extendable

Allows researchers to add custom content and stay updated with recent discoveries.



#### **Cost-effective**

Demonstrates significant cost benefits during large-scale testing.



#### Efficient

Up to 2304 samples in a single round. Less than 72h turnaround time.



#### Accurate

Average call rate ≥99.3%. Reproducibility ≥99.9%. 15-30 repeated assays per marker

# 🕅 Data Performance

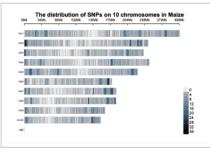


Figure 1 : The distribution of SNPs on 10 chromosomes in maize.

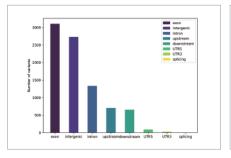


Figure 2: The annotation of core markers of the Maize Industry-grade Breeding Array 10K. \*Markers in exons: 35.86%.

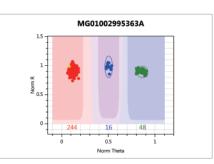
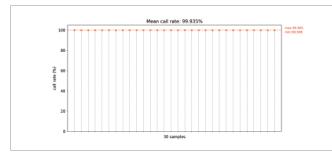


Figure 3: Genotyping clustering plot of a single SNP in the Maize Industry-grade Breeding Array 10K.





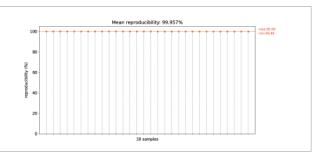


Figure 5: Genotype reproducibility for test samples with the Maize Industry-grade Breeding Array 10K. \*Mean reproducibility: 99.96%

# 🕅 About LASO Biotech

Suzhou LASO Biotech is a leading pioneer in China for the independent development, production, and commercialization of high-density microarrays, offering an integrated microarray solution, encompassing chips, the chip scanner OmniScan, reagents and softwares.

As of now, Laso Biotech has obtained 13 invention patents, 5 utility model patents, 4 design patents, and 1 medical device registration certificate, making it the company with the most comprehensive intellectual property portfolio and independently controllable core technologies for microarray under Chinese law.



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