Capital BIO
TECHNOLOGY

IMAP Platform

Providing You with Customized Chip

The microfluidic chip test system, I–Microfluidic Array Platform (IMAP) independently researched and developed by CapitalBio Technology, is the first chip platform that owns independent intellectual property right to conduct SNP test in China. Integrating biological sample adding, PCR reaction, fluorescence in–situ test and a series of operating units, it can realize the high–throughput, flexible and accurate SNP/InDel test without need of making up the number of sample and sites, conduct test at any time, improving the test efficiency of biological sample and reducing cost, and can realize the application product, provide the overall solutions for "industry–university–research–application cooperation" and help the transformation of scientific and technical achievements.



Customized Chip

The "Sample + Site" application test product in different specifications can be customized and developed according to requirements

Simple and Fast

Once manual sample adding, simple taking and putting, tests for 96 reactions can be completed within 2h

Total Solution

From project design, project implementation to production transformation, providing the overall solution

Multiple Research Achievements

Achieving the subject, article, software copyright, patent or award and other scientific and technical deliverables



Test process

Adding Sample at one time

Instrument Operation (simple taking and putting)

Centrifuge and heat sealing	Amplification	Scanning
2min	100min	2min

Result Output

Service contents

Client Supply

SNP/InDel loci or sequence reference (known typing) or sample to be tested

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Product R&D

IMAP



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Product Output



Application Case



Twenty-three Deafness Gene Mutation Detection Kit (Microfluidic Chip Method)

The Detection Kit for 23 Hereditary Deafness-related Genes developed on the basis of IMAP platform adopts microfluidic chip technique and combines with competitive allelic gene specific amplification technique, and can test 23 mutations of GJB2 gene, SLC26A4 gene, mitochondria 12SrRNA and GJB3 gene in whole blood or filter paper dried blood spot sample, with the coverage for four genes related to hereditary deafness up to 90% above.

Package Spec	Storage Condition
24 tests/kit	Part A shall be stored in a dark place at 2℃~8℃; Part B shall be stored in a dark place at −20℃±5℃
120 tests/kit	

Test Range

Gene to be Tested	Test loci	Number of Sites
GJB2	c.235delC, c.299_300delAT, c.109G>A, c.176_191del16, c.257C>G, c.512insAACG, c.427C>T, c.35insG, c.35delG	9
SLC26A4	c.919−2A>G, c.2168A>G, c.1174A>T, c.1226G>A, c.1229C>T, c.1975G>C, c.2027T>A, c.589G>A, c.1707+5G>A, c.917insG, c.281C>T	11
12S rRNA	m.1494C>T, m.1555A>G	2
GJB3	c.538C>T	1
Total	-	23

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