

A faint, light blue line drawing of a microfluidic chip layout, showing various rectangular and circular channels and wells, serving as a background for the text.

AMR DIRECT FLOW CHIP

**DNA
FLOW
TECHNOLOGY**

Molecular diagnostic kits based on
Multiplex PCR
and Macroarray Chip

AMR DIRECT FLOW CHIP

Simultaneous detection of **20 antibiotic resistance genes**
present in Gram-positive and Gram-negative bacteria

B		kpc	spm		vanB	B
B		sme	ndm		vanA	ges oxa23
Cl		nmc/imi	sim		mecA	vim oxa24
BG			imp			gim oxa48
		blaSHV			kpc	oxa51
SA		blaCTX	B		spm	oxa58
		ges	oxa23	Cl	sme	ndm
		vim	oxa24	BG	nmc/imi	sim
		mecA	gim	oxa48		imp
		vanA	oxa51	SA	blaSHV	
B		vanB	oxa58		blaCTX	

SA: *Staphylococcus aureus*
 mecA: Methicillin resistance gene
 vanA: Vancomycin resistance gene
 vanB: Vancomycin resistance gene
 kpc: Class A carbapenemase
 sme: Class A carbapenemase
 nmc/imi: Class A carbapenemase
 blaSHV: extended-spectrum
 β-lactamase SHV
 blaCTX-M: extended-spectrum
 β-lactamase CTX-M
 ges: Class A carbapenemase
 vim: Class B carbapenemase
 gim: Class B carbapenemase
 smp: Class B carbapenemase
 ndm: Class B carbapenemase
 sim: Class B carbapenemase

imp: Class B carbapenemase IMP3,
 15, 19_like
 oxa 23: Class D carbapenemase
 OXA23_like
 oxa 24: Class D carbapenemase
 OXA24_like
 oxa 48: Class D carbapenemase
 OXA48_like
 oxa 51: Class D carbapenemase
 OXA51_like
 oxa 58: Class D carbapenemase
 OXA58_like
 B: Hybridization control
 Cl: Exogenous amplification control
 BG: Endogenous amplification
 control (β-globin human fragment)

Developed and manufactured by
 **master diagnóstica**

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