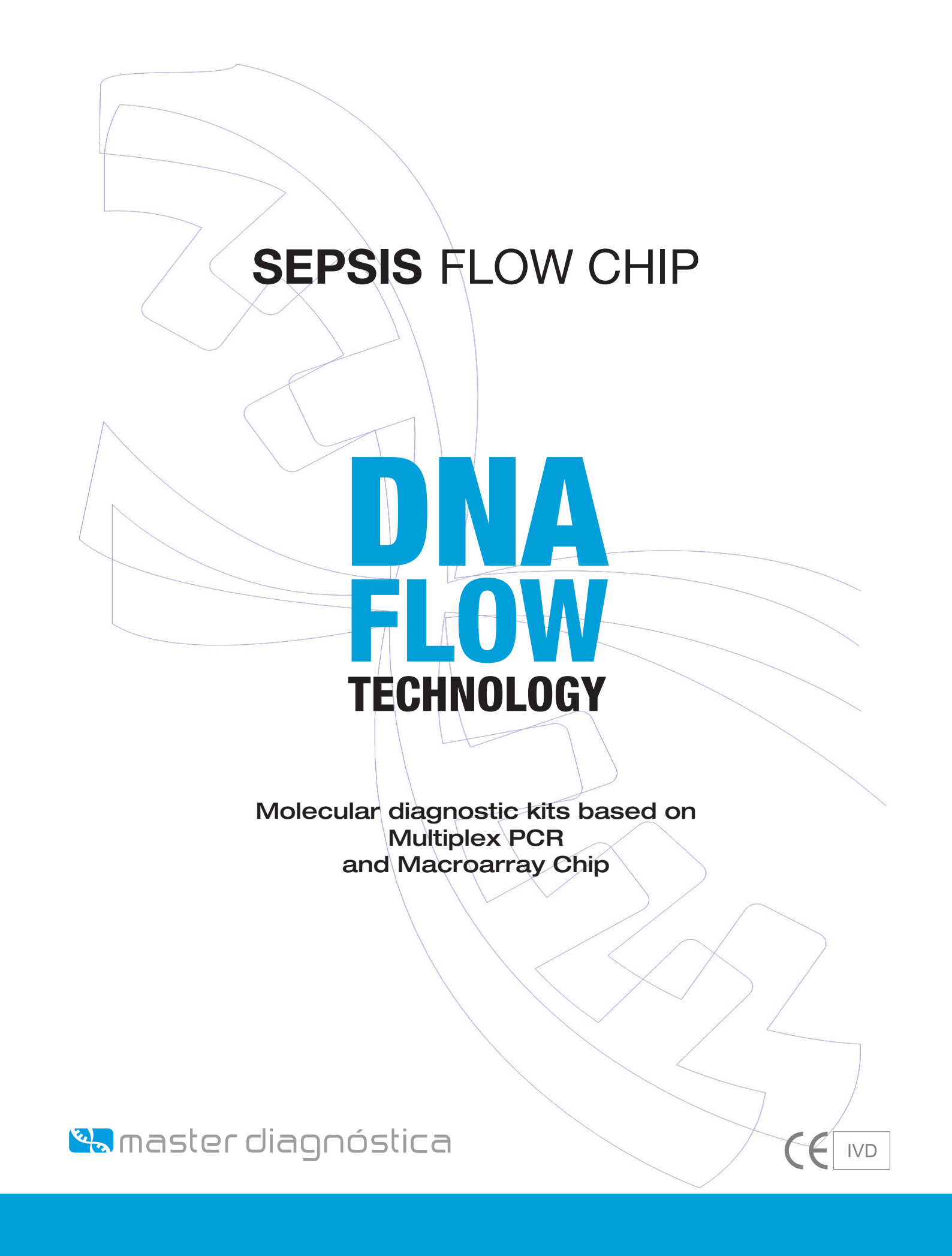




SEPSIS FLOW CHIP

**DNA
FLOW
TECHNOLOGY**

Molecular diagnostic kits based on
Multiplex PCR
and Macroarray Chip

SEPSIS FLOW CHIP

Simultaneous detection of more than **40 pathogens** and **20 antibiotic resistant genes** responsible for sepsis, including:

- ▶ Gram + bacteria
- ▶ Gram - bacteria
- ▶ Fungi
- ▶ Antibiotic resistance determinants: MRSA, *mecA*, *vanA*, *vanB*, ESBL and carbapenemases

B		LIS	<i>kpc</i>	<i>spm</i>	ECOLI	<i>vanB</i>	B	
B	ABAU	ENTEROC	<i>sme</i>	<i>ndm</i>	ENTEROC	<i>vanA</i>	<i>ges</i>	<i>oxa23</i>
CI	SMAR/ KLEB	PAER	<i>nmc/imi</i>	<i>sim</i>		<i>mecA</i>	<i>vim</i>	<i>oxa24</i>
BG	SAGAL	KLEB		<i>imp</i>	SMALTO	CALB	<i>gim</i>	<i>oxa48</i>
	STAPHYL	STREP	<i>blaSHV</i>		CAND	PROT/ MOR	<i>kpc</i>	<i>oxa51</i>
SPNEU	SA	NEISS	<i>blaCTX</i>		B	ABAU	LIS	<i>spm</i>
	ECOLI	PROT/ MOR	<i>ges</i>	<i>oxa23</i>	CI	SMAR/ KLEB	ENTEROC	<i>sme</i>
	SMALTO	ENTEROC		<i>vim</i>	<i>oxa24</i>	BG	SAGAL	PAER
CAND		<i>mecA</i>	<i>gim</i>	<i>oxa48</i>		STAPHYL	KLEB	<i>imp</i>
	CALB	<i>vanA</i>		<i>oxa51</i>	SPNEU	SA	STREP	<i>blaSHV</i>
	B	<i>vanB</i>		<i>oxa58</i>		NEISS	<i>blaCTX</i>	

SPNEU: Streptococcus pneumoniae
 SMALTO: Stenotrophomonas maltophilia
 CAND: Candida spp.
 ABAU: Acinetobacter baumannii
 SMAR/KLEB: Serratia marcescens/
 Klebsiella pneumonia
 SAGAL: Streptococcus agalactiae
 STAPHYL: Staphylococcus spp.
 SA: Staphylococcus aureus
 ECOLI: Escherichia coli
 ENTEROC: Enterococcus spp.
 CALB: Candida albicans
 LIS: Listeria monocytogenes
 ENTEROC: Enterococcus spp.
 PAER: Pseudomonas aeruginosa
 KLEB: Klebsiella pneumoniae
 STREP: Streptococcus spp.
 NEISS: Neisseria meningitidis
 PROT/MOR: Proteus spp.
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: β -lactamase SHV
blaCTX-M: extended-spectrum β -lactamase CTX-M
ges: Class A carbapenemase
vim: Class B carbapenemase
gim: Class B carbapenemase
spm: 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
CI: Exogenous amplification control
BG: Endogenous amplification control (β -globin human fragment)

✓ Validated with External Quality Control Program for Molecular Diagnostics QCMD

References

Instrument	Tests	Reference
HS12	24 test	MAD-003936M-HS12-24
	48 test	MAD-003936M-HS12-48
HS24	24 test	MAD-003936M-HS24-24
	48 test	MAD-003936M-HS24-48

Developed and manufactured by
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