

FIGURE 1

Process example A

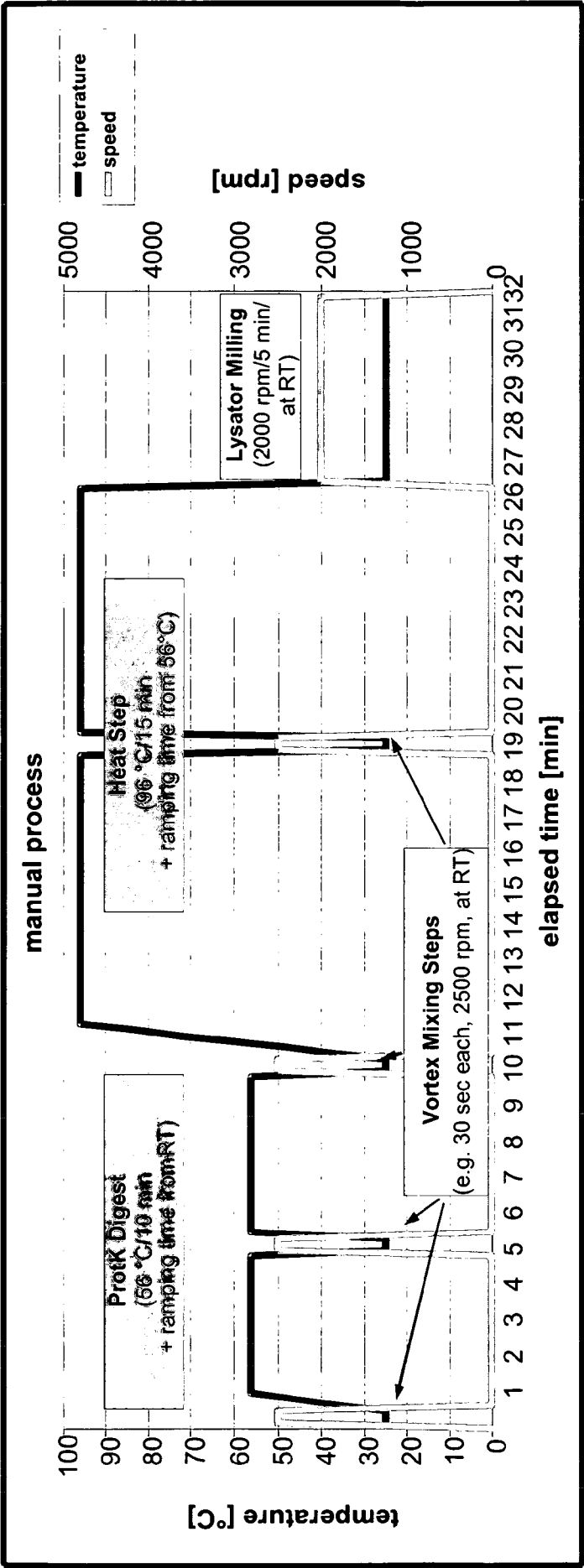


FIGURE 2
Process example B

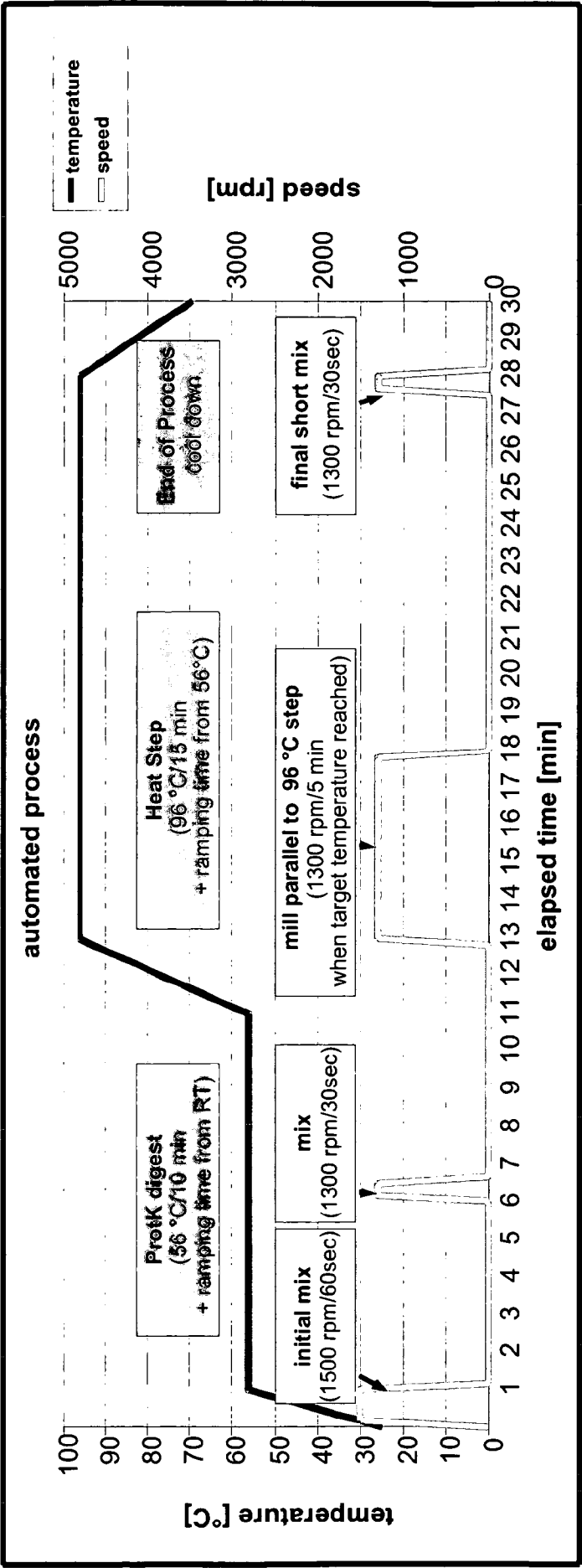
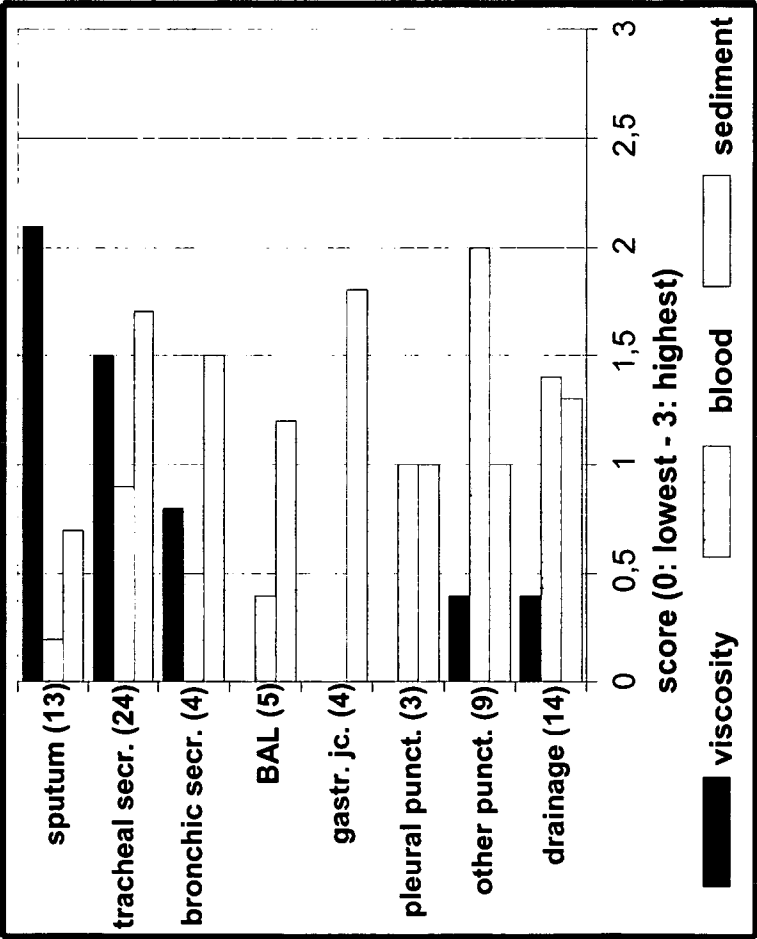
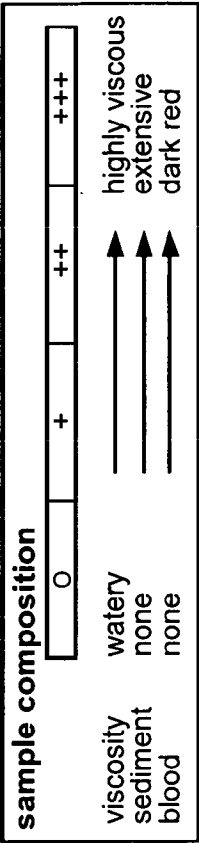


FIGURE 3



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FIGURE 4

impact on lysis					performance (full protocol)	
	ProtK	96°C	milling		lysis	silica membrane
sputum	(+)	+	++	+	OK	OK
tracheal secretion	++	++	+	+++	slightly turbid	slight colorization
tracheal secretion	O	O	O	++	OK	OK
bronchic secretion	+	+	O	++	OK	OK
BAL	O	O	O	+	OK	OK
gastric juice	O	O	O	++	OK	OK
pleural punctate	O	O	O	+	OK	OK
punctate/blood	O	++	+	+++	OK	slight colorization
punctate	++	O	O	+	OK	OK
drainage	O	O	O	+++	OK	slight colorization
drainage	O	O	O	++	OK	OK
blood	++	O	O	n.a.	OK	OK

FIGURE 5

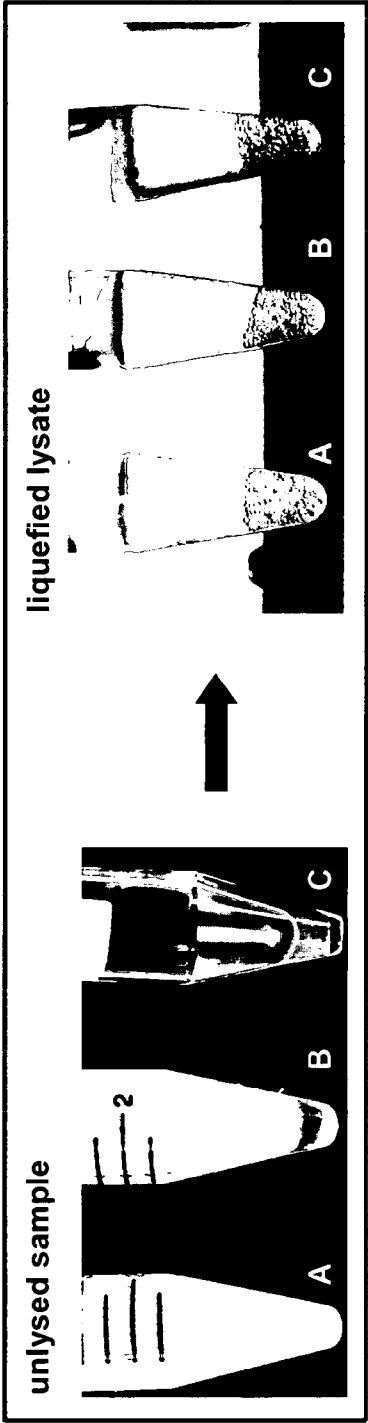


FIGURE 6A

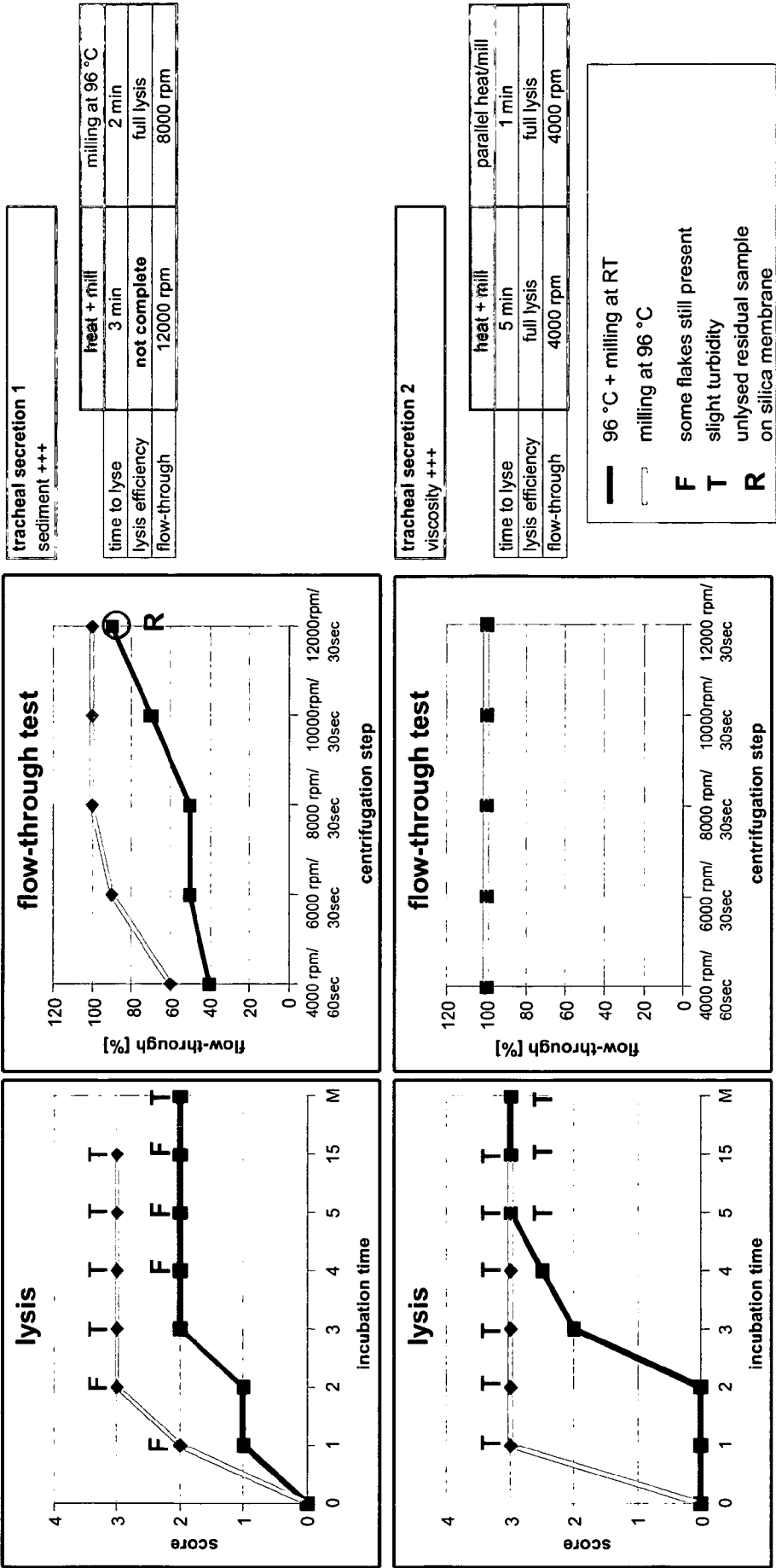


FIGURE 6B

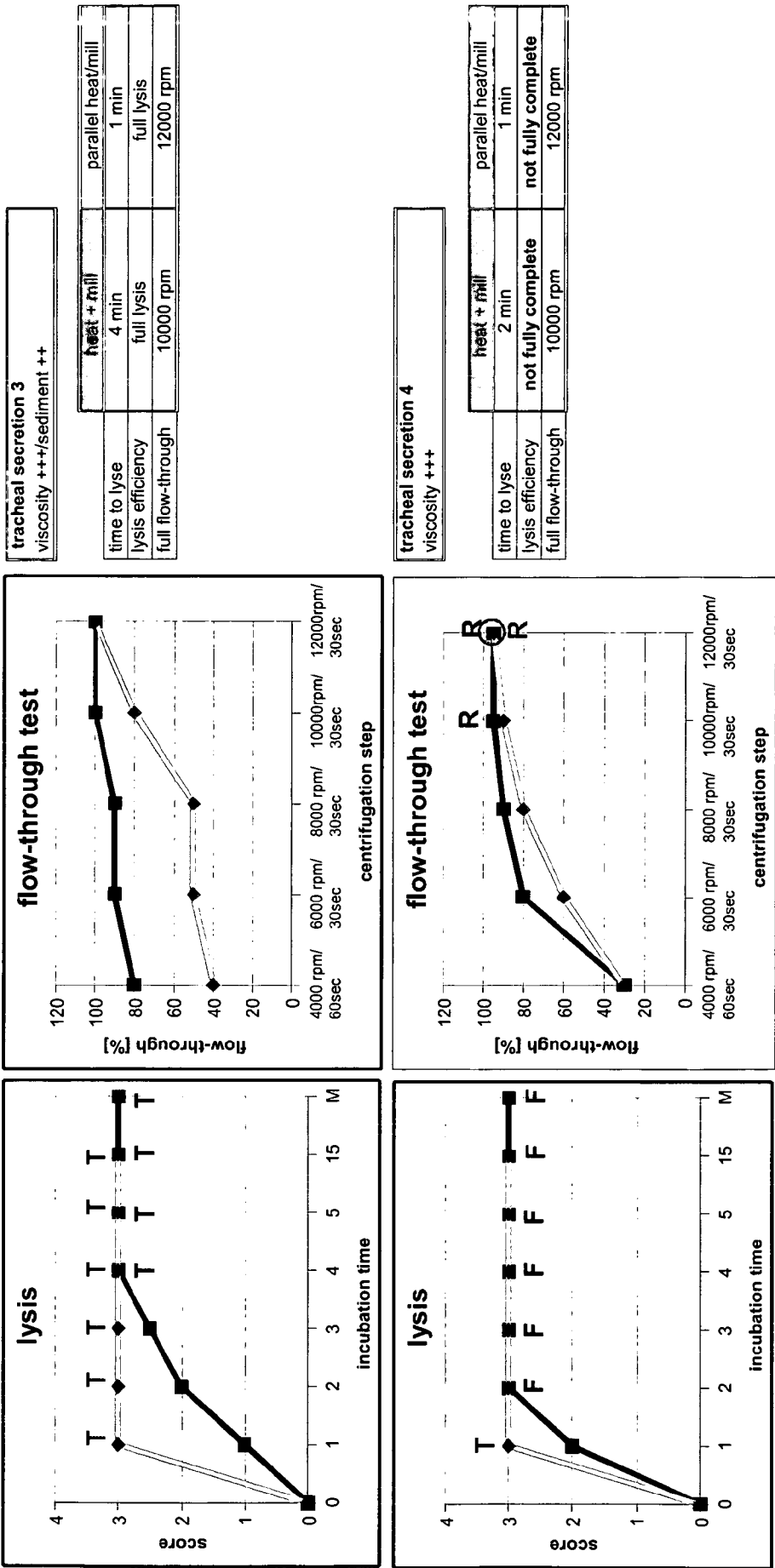


FIGURE 7A

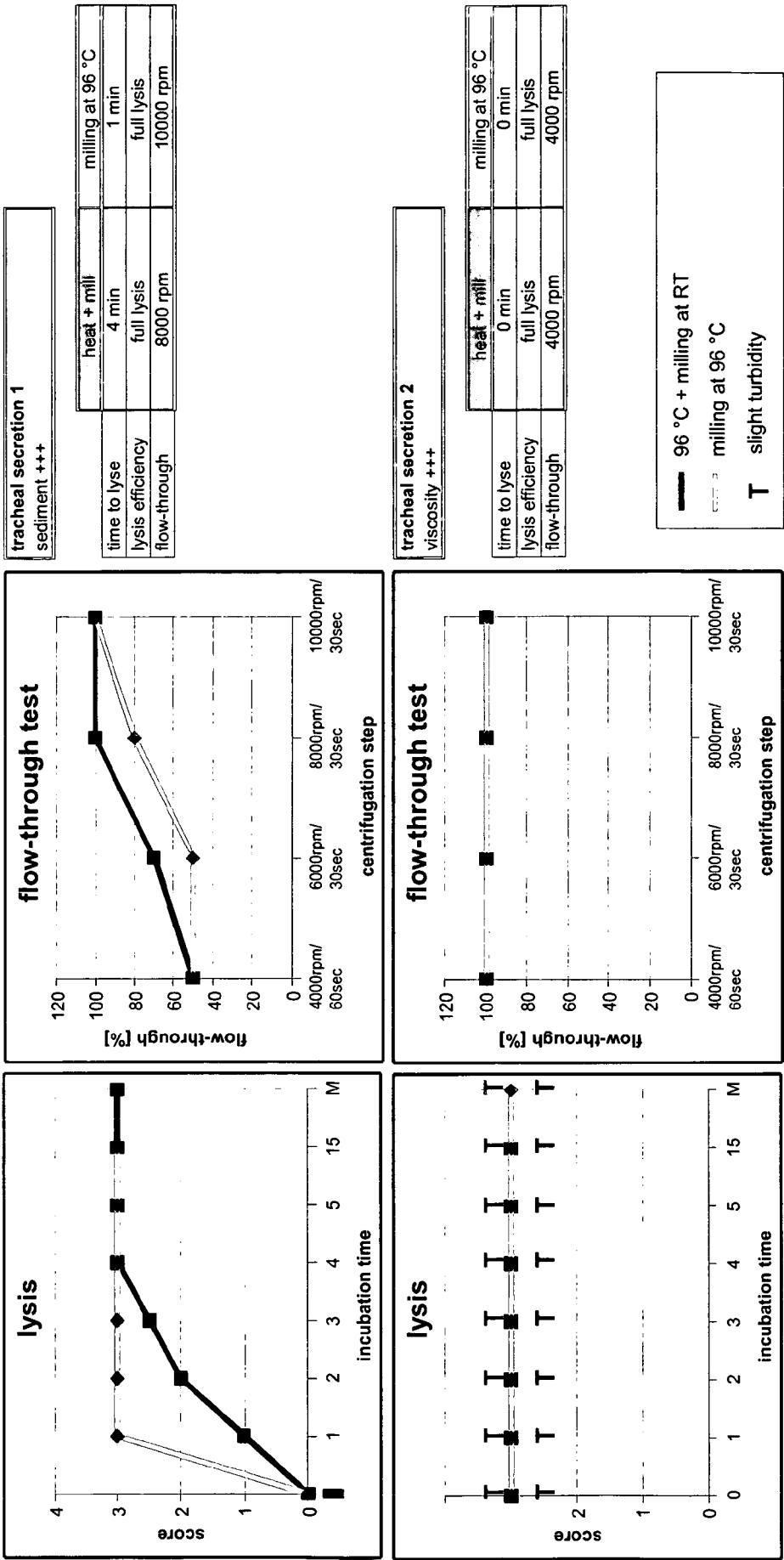


FIGURE 7B

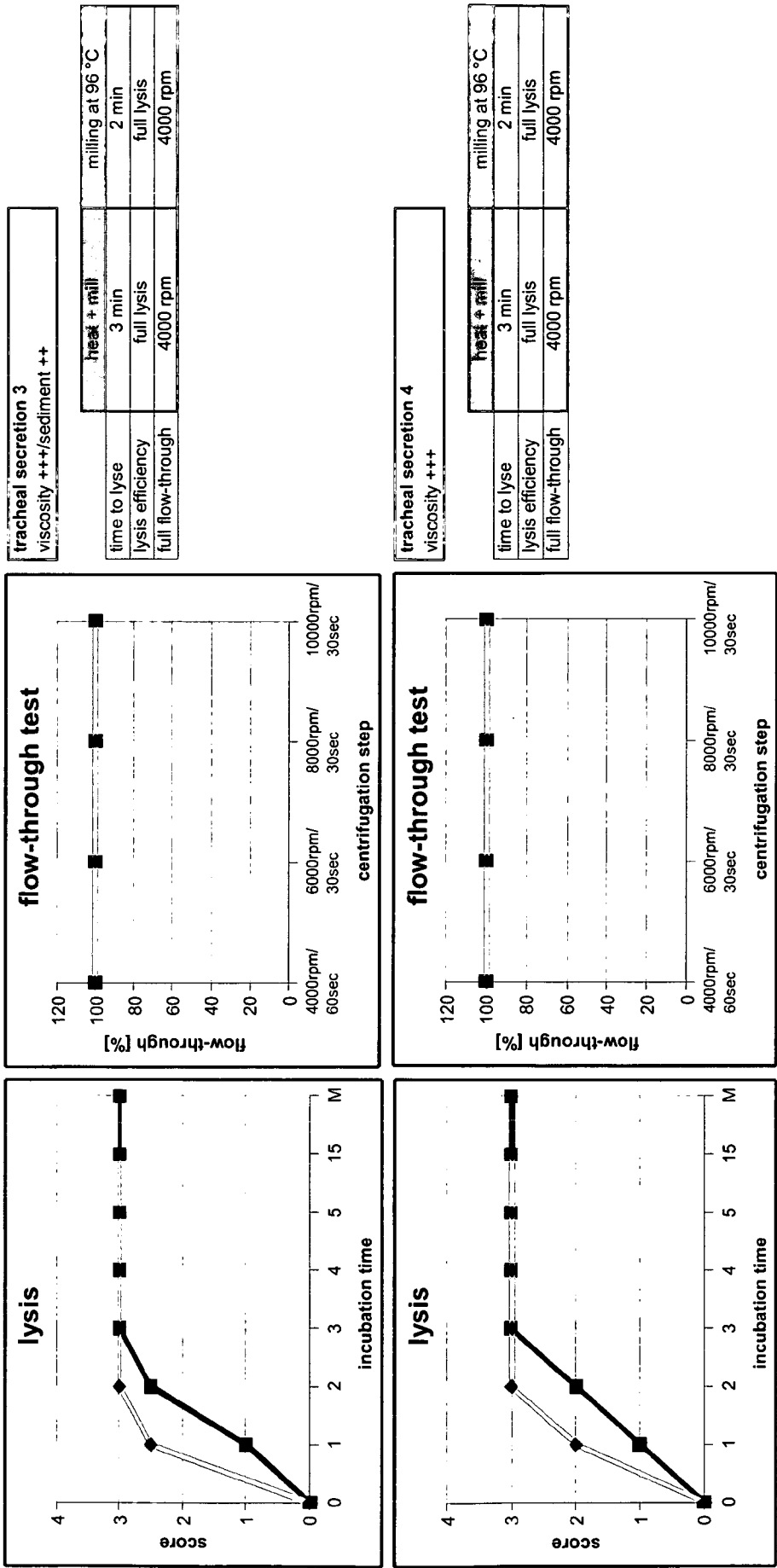


FIGURE 9

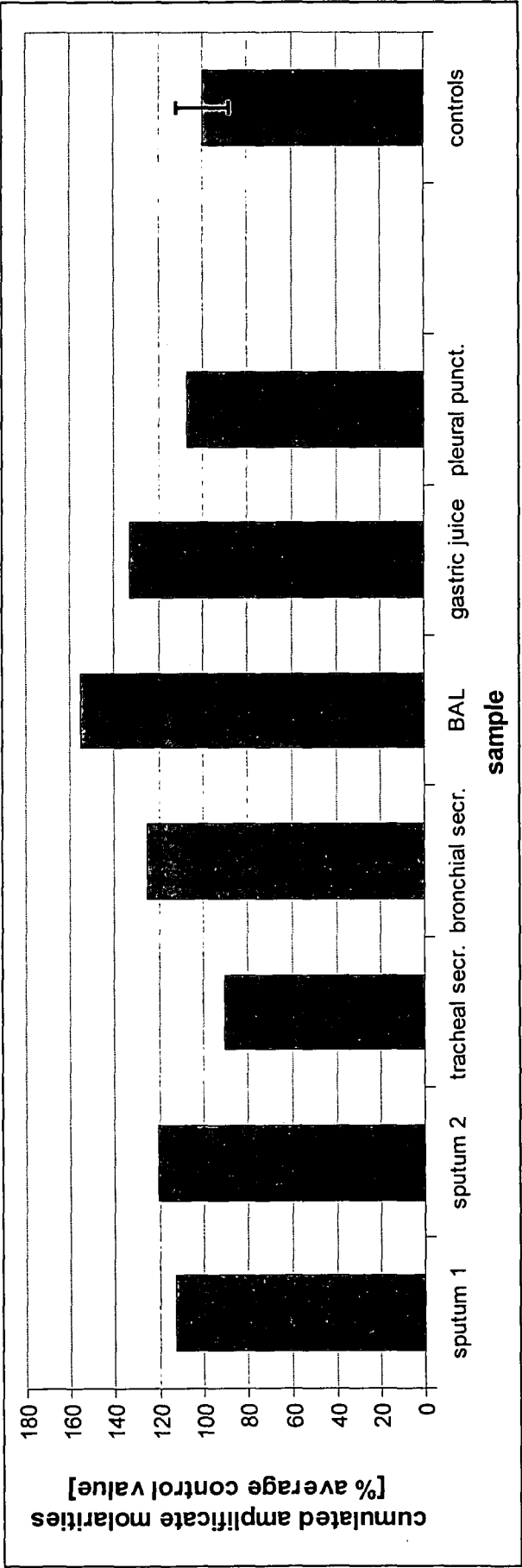


FIGURE 10

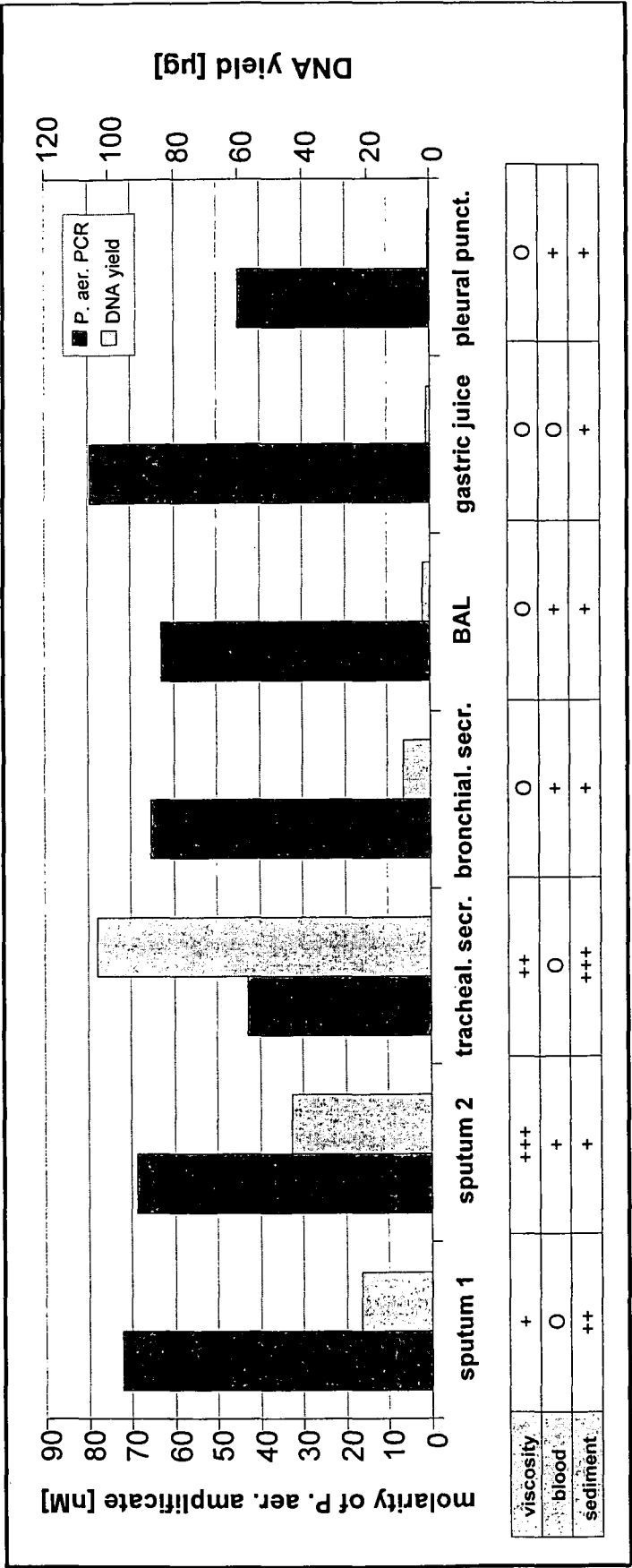


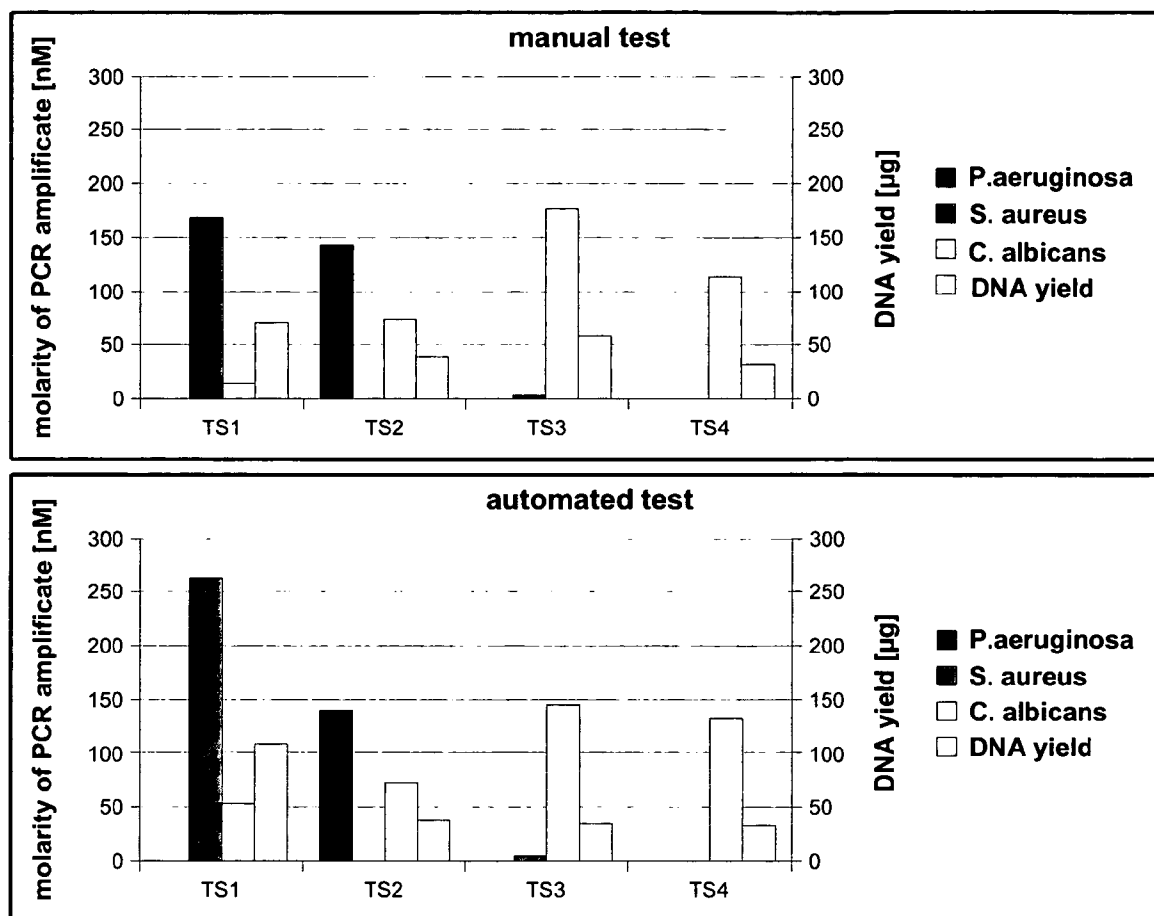
FIGURE 11

		PCR 1				PCR 2				Str. species
		K. pneum.	Str. pn.	P. aer.		S. aur.	Haem.	E. coli		
sputum	1	O		O		O	O	O		S. pneumoniae
	2	++		O		(+)		O		K. pneum., S. pneum., Haem.
	3	O	O	O		++		+		S. aureus, E. coli
	4	O		O		O	O	O		S. pneumoniae
	5	O		O			O	(+)		S. pneumoniae
	6	O	O	O		O	O	O		negative
tracheal secretion	1	O	O	O		O	O	O		negative
	2	O	+	O		O	+	++		S. pneum., Haem., E. coli
	3	O	+	O		O	(+)	++		S. pneumoniae, E. coli
	4	O	(+)	O		O	(+)	O		negative
	5	O	O	O		O	O	(+)		negative
	6	O	++	O		O	++	O		S. pneumoniae, Haem.
bronchial secretion	1	O	O	O		O	O	+		E. coli
	2	O	O	O		+	O	(+)		S. aureus
	3	O	++	O		O	++	O		S. pneumoniae, Haem.
	4	O	O	O		O	O	O	(+)	negative
BAL	1	O	O	++		O	O	O		P. aeruginosa
	2	O	O	O		O	O	(+)		negative
	3	O	++	O		O	+	O		S. pneumoniae, Haem.
	4	O	O	O		O	O	(+)		negative
	5	O	++	O		O	+	(+)		S. pneumoniae, Haem.
gastric juice	1	O	++	O		+	++	O		S. pneum., S. aureus, Haem.
	2	O	O	++		O	O	O		P. aeruginosa
	3	O	(+)	O		O	O	O		negative
	4	O	++	O		O	++	O		S. pneumoniae, Haem.
pleural punctate	1	O	O	O		O	O	O		negative
	2	O	O	O		O	O	O		negative
		> 100 nM		++		+	1-10 nM			< 1 nM (counted as "negative")
									(+)	

FIGURE 12

sputum 4	S. pneumoniae	☒
sputum 5	S. aureus	☒
tr. secr. 6	Haemophilus parainfluenzae	☒
br. secr. 3	Haemophilus influenzae	☒
BAL 1	P. aeruginosa	☒

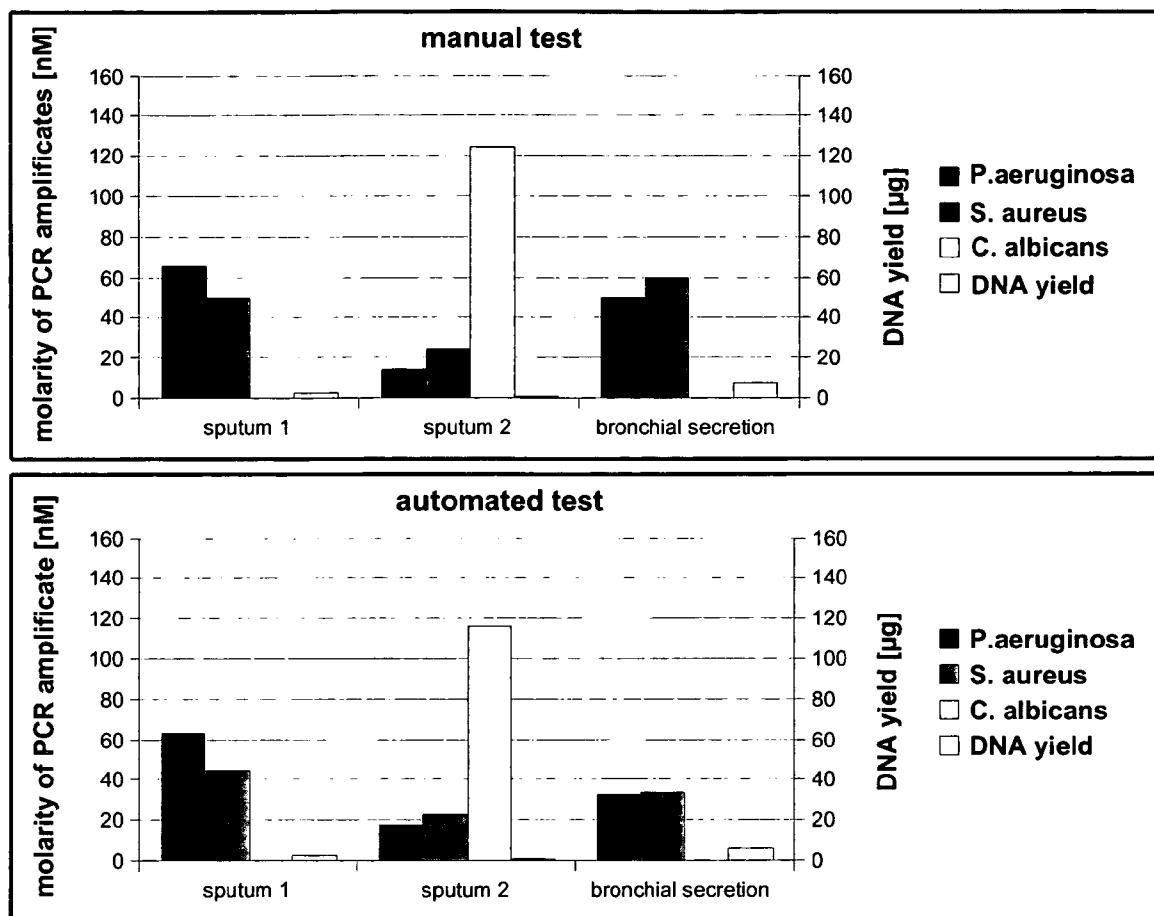
FIGURE 13

**samples**

	microbiological diagnostics		
	<i>P. aeruginosa</i>	<i>S. aureus</i>	<i>C. albicans</i>
tracheal secretion 1		+	+
tracheal secretion 2	+		+
tracheal secretion 3			++
tracheal secretion 4			++

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FIGURE 14

**samples**

	microbiological diagnostics		
	P.aeruginosa	S. aureus	C. albicans
sputum 1	(spiking)	(spiking)	
sputum 2	(spiking)	(spiking)	+
bronchial secretion	(spiking)	(spiking)	