Evaluation of Rosco Diagnostica Rapid CARB Screen kit, for detection of carbapenemase activity. London 2013

48 isolates of Entrobacteriaceæ and P. aeruginosa with previously characterized resistance mechanisms including the following carbapenemases: IMI, IMP, VIM, OXA-48, OXA-181, KPC and NDM as well as non- carbapenemase (8 isolates). The authors found a sensitivity of 92.5% and a specificity of 92.5%.

Table: Isolates tested in this evaluation

			Reader 1				Reader 2		
	Genus/species	**Enzyme/resistance mechanism(s)**	**30 min**	**1 hr**	**2 hr**	**control**	**30 min**	**1 hr**	**Interpretation**
	Enterobacter cloacae	non-carbapenemase	red	red	red	n.a.	red	red	negative
	Escherichia coli	non-carbapenemase	red/orange	red/orange	red/orange	red	-	-	negative
	Pseudomonas aeruginosa	non-carbapenemase	red/orange	red/orange	red/orange	red/orange	-	-	*Undeterminable Negative*
	Klebsiella pneumoniae	non-carbapenemase	red/orange	red/orange	red/orange	red	-	-	negative
	Klebsiella pneumoniae	non-carbapenemase	red	red	red	n.a.	red	red	negative
	Enterobacter cloacae	non-carbapenemase	yellow/red	red	red	n.a.	red	red	negative
	Klebsiella pneumoniae	non-carbapenemase	red	red	red	n.a.	red	red	negative
	Pseudomonas aeruginosa	non-carbapenemase	red	red	red	n.a.	-	-	negative
	Enterobacter cloacae	IMI	yellow	-	-	n.a.	-	-	**positive**
	Enterobacter cloacae	IMI	yellow/red	yellow/red	yellow/red	n.a.	yellow	-	**positive**
	Enterobacter aerogenes	IMP	red/orange	red/orange	red/orange	red	-	-	negative
	Klebsiella pneumoniae	IMP	yellow	-	-	n.a.	yellow	-	**positive**
	Klebsiella pneumoniae	IMP	yellow	-	-	n.a.	yellow	-	**positive**
	Pseudomonas aeruginosa	IMP	yellow	-	-	n.a.	yellow	-	**positive**
	Escherichia coli	IMP	yellow	-	-	n.a.	yellow/orange	-	**positive**
	Klebsiella pneumoniae	VIM	yellow	-	-	n.a.	yellow	-	**positive**
	Enterobacter gergoviae	VIM	yellow	-	-	n.a.	yellow	-	**positive**
	Pseudomonas aeruginosa	VIM	yellow	-	-	n.a.	-	-	**positive**

	Escherichia coli	VIM	yellow	-	-	n.a.		-	**positive**
	Pseudomonas aeruginosa	VIM	yellow	-	-	n.a.		-	**positive**
	Klebsiella pneumoniae	OXA-48	red	red	red	n.a.	red	red	negative
	Escherichia coli	OXA-48	yellow	-	-	n.a.	yellow	-	**positive**
	Citrobacter freundii	OXA-48	yellow	-	-	n.a.	yellow	-	**positive**
	Citrobacter freundii	OXA-48	yellow	-	-	n.a.	yellow	-	**positive**
	Klebsiella pneumoniae	OXA-48	yellow	-	-	n.a.	yellow	-	**positive**
	Enterobacter sp.	OXA-48	yellow	-	-	n.a.	yellow	-	**positive**
	Escherichia coli	OXA-48	yellow	-	-	n.a.	yellow/orange	-	**positive**
	Escherichia coli	OXA-181	red/orange	red/orange	red/orange	red/orange	-	-	*Undeterminable Negative*
	Pseudomonas aeruginosa	OXA-181	yellow	-	-	n.a.	yellow	-	**positive**
	Klebsiella pneumoniae	KPC-2	yellow	-	-	n.a.	yellow	-	**positive**
	Klebsiella pneumoniae	KPC-2	yellow	-	-	n.a.	yellow	-	**positive**
	Enterobacter cloacae	KPC-4	yellow/red	yellow	-	n.a.	yellow	yellow	**positive**
	Klebsiella pneumoniae	KPC-2	yellow	-	-	n.a.	yellow	-	**positive**
	Escherichia coli	KPC	yellow	-	-	n.a.	yellow	-	**positive**
	Klebsiella pneumoniae	KPC-2	yellow	-	-	n.a.	yellow	-	**positive**
	Escherichia coli	KPC	yellow	-	-	n.a.	yellow	-	**positive**
	Escherichia coli	KPC	yellow	-	-	n.a.	-	-	**positive**
	Enterobacter cloacae	KPC-2	yellow	-	-	n.a.	yellow	-	**positive**
	Klebsiella pneumoniae	KPC-2	yellow	-	-	n.a.	-	-	**positive**
	Citrobacter freundii	NDM-1	yellow/red	yellow	-	n.a.	yellow	yellow/red	**positive**
	Morganella morganii	NDM	yellow	-	-	n.a.	yellow	-	**positive**
	Klebsiella pneumoniae	NDM	yellow	-	-	n.a.	yellow	-	**positive**
	Escherichia coli	NDM	yellow	-	-	n.a.	-	-	**positive**
	Serratia marcescens	NDM	yellow	-	-	n.a.	yellow	-	**positive**
	Pseudomonas aeruginosa	NDM	yellow	-	-	n.a.	yellow	-	**positive**
	Escherichia coli	NDM-7	yellow	-	-	n.a.	-	-	**positive**
	Pseudomonas aeruginosa	NDM	yellow	-	-	n.a.	-	-	**positive**
	Enterobacter. aerogenes	NDM	yellow	-	-	n.a.	-	-	**positive**