

PCR-/NAT Carbapenemasen (RV 544) Mai 2021



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
2115441	+++	61 / 76	<i>K. pneumoniae</i> IMP-1 (~ 1x10 ⁷ genome copies/mL)
2115442	∅	62	<i>Escherichia coli</i> K12
2115443	+++	61 / 72	<i>Citr. freundii</i> complex VIM-2 (~ 1x10 ⁷ genome copies/mL)
2115444	+++	61 / 73	<i>K. pneumoniae</i> OXA-245 (~ 1x10 ⁷ genome copies/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n = 99</i>	<i>Probennummer (Sample no.)</i>				<i>Inhibition</i>				
	2115441	2115442	2115443	2115444	2115441	2115442	2115443	2115444	
<i>Befund Result</i>									
Positiv	89	1	98	93	n.d.	2	2	2	2
Negativ	10	98	1	6	nein no	97	97	97	97
Fraglich Questionable	0	0	0	0	ja yes	0	0	0	0

Tabelle 3: Häufigkeit richtig positiver und richtig negativer NAT-Befunde bei Anwendern verschiedener Methoden.

Absolute numbers and relative frequency of reported true positive and true negative results among various NAT methods.

NAT-Methode [Code] (total number *)	NAT richtig positiv <i>True positive results</i>						NAT richtig negativ	
	2115441		2115443		2115444		2115442	
	<i>Absolut Absolute</i>	%	<i>Absolut Absolute</i>	%	<i>Absolut Absolute</i>	%	<i>Absolut Absolute</i>	%
AID Carbapenemase (n = 4)	2	50	4	100	4	100	4	100
eazyplex superbug complete A/B/C(n=9)	4	44	9	100	4	44	9	100
Cepheid Xpert Carba-R (n = 58)	58	100	57	98	58	100	57	98
Seegene Allplex Entero-DR (n = 7)	6	86	7	100	7	100	7	100
LightMix Modular Carbapenemase (n= 5)	5	100	5	100	5	100	5	100
Other commercial tests (n = 5)	4	80	5	100	4	80	5	100
<i>In house</i> PCR assay (n = 11)	10	91	11	100	11	100	11	100

Comments: ²⁾ One participant has wrongly reported detection of the NDM gene in samples # 2115443 and # 2115444.
³⁾ One participant has wrongly reported detection of the VIM gene in sample # 2115442.