

**PCR-/NAT *Clostridium difficile*
 (RV 545) November 2015**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

	<i>Erwartet / expected</i>		<i>Probenzusammensetzung / Sample composition</i>
1525451	++	61 / 71,72	<i>Clostridium difficile</i> (~ 1x10 ⁴ CFU/mL)
1525452	+	61 / 71,72	<i>Clostridium difficile</i> (~ 5x10 ³ CFU/mL)
1525453	++	61 / 71,72	<i>Clostridium difficile</i> (~ 5x10 ⁴ CFU/mL)
1525454	∅	62	<i>Escherichia coli</i> K12

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

<i>n = 84</i>	<i>Probennummer (Sample no.)</i>					<i>Inhibition</i>			
	1525451	1525452	1525453	1525454		1525451	1525452	1525453	1525454
Befund <i>Result</i>									
Positiv	82	79	83	1	n.d.	0	0	0	0
Negativ	2	5	1	83	nein <i>no</i>	84	84	84	84
Fraglich <i>Questionable</i>	0	0	0	0	ja <i>yes</i>	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 <i>True negative results</i>		
	Absolut <i>Absolute</i>	Relativ <i>Relative</i>	%	Absolut <i>Absolute</i>	Relativ <i>Relative</i>	%
Cepheid Xpert <i>C.difficile</i> [20] (n=26)	70	70 / 78	90	25	25 / 26	96
BD MAX <i>C.difficile</i> [21] (n =7)	21	21 / 21	100	7	7 / 7	100
Commercial assay / kit [27] (n =42)	126	126 / 126	100	42	42 / 42	100
<i>In house</i> PCR assay [28] (n = 12)	36	36 / 36	100	12	12 / 12	100

* Durch Mehrfachnennung oder fehlende Angabe kann die absolute Zahl der Ergebnisse (Tab. 2) von der Anzahl der Teilnehmer abweichen.
Due to reporting results of multiple assay systems or missing specifications, the effective numbers are not correlating with the number of participants.

Comments: 36 participants reported dedicated identification of toxin genes. With the exception of 15 participants, who have missed the *tcdA* toxin, all reported results were correct.