

**PCR-/NAT *Clostridium difficile*
 (RV 545) November 2024**



Tabelle 1: Probenzusammensetzung und erwartetes Ergebnis.

Sample composition and expected results.

Proben Nr.	Erwartet / expected		Probenzusammensetzung / Sample composition
545A 241015 01	+++	61/ 71,72,73,75	<i>Clostridium difficile</i> Ribotyp O27 (~ 1x10 ⁶ CFU/mL)
545A 241015 02	∅	62	<i>Escherichia coli</i> K12
545A 241015 03	++	61/ 71,72,73,75	<i>Clostridium difficile</i> Ribotyp O27 (~ 1x10 ⁵ CFU/mL)
545A 241015 04	+	61/ 71,72,73,75	<i>Clostridium difficile</i> Ribotyp O27 (~ 1x10 ⁴ CFU/mL)

Tabelle 2: Häufigkeit der Mitteilung verschiedener Befunde.

Absolute numbers of reported individual results.

n = 173	Proben Nr. (Sample no.)					Inhibition			
	01	02	03	04		01	02	03	04
Befund <i>Result</i>									
Positiv	173	0	172	170	n.d.	1	1	1	1
Negativ	0	173	1	3	nein <i>no</i>	172	172	172	172
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	
	01		03		04		02	
	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%	Absolut <i>Absolute</i>	%
Altona RealStar <i>C. difficile</i> (n= 8)	8	100	8	100	8	100	8	100
Amplex eazplex <i>C. difficile</i> complete (n= 4)	4	100	4	100	4	100	4	100
AmpliGnost <i>C. difficile</i> Tox. A + B (n= 3)	3	100	3	100	3	100	3	100
BD MAX <i>C. difficile</i> (n= 21)	21	100	21	100	21	100	21	100
Bruker-HAIN FluoroType CDiff (n= 1)	1	100	1	100	1	100	1	100
Cepheid Xpert <i>C. difficile</i> (n= 58)	58	100	57	98	57	98	58	100
<i>C. difficile</i> ELITe MGB Kit (n= 2)	2	100	2	100	2	100	2	100

Meridian Alethia C. difficile (n= 8)	8	100	8	100	8	100	8	100
Quidel Solana C. difficile (n= 1)	1	100	1	100	1	100	1	100
Roche Cobas Liat Cdiff (n= 1)	1	100	1	100	1	100	1	100
Seegene Allplex GI-Bacteria I (n= 9)	9	100	9	100	9	100	9	100
Seegene Allplex GI-EB Screening (n= 15)	15	100	15	100	15	100	15	100
LightMix modular Toxin tcdA/tcdB (n= 3)	3	100	3	100	3	100	3	100
RIDAGENE C. difficile (n= 22)	22	100	22	100	22	100	22	100
RIDAGENE Hospital stool panel (n= 1)	1	100	1	100	1	100	1	100
In house PCR assay (n= 7)	7	100	7	100	6	86	7	100
Other commercial tests (n= 9)	9	100	9	100	8	89	9	100

The following tests are listed under "Other commercial tests": BioMerieux BioFire FILMARRAY GI Panel (3x), Roche UC-TIB-EHEC/C.diff (2x), Gerbion diarellaC.difficile real time PCR Kit (1x), Integrated DNA Technologies IDT C.diff qPCR Assay (1x), SD BIOSENSOR M10 C. difficile (1x) and QIAGEN QIAstat-Dx Gastrointestinal Panel 2 (1x).