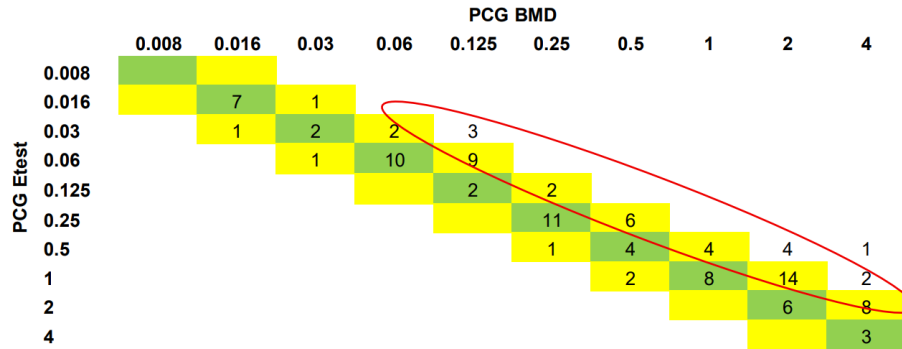


Investigating the performance of gradient tests (Etest from bioMerieux; MTS from Liofilchem) on two different media vs. broth microdilution for the determination of benzylpenicillin MICs.

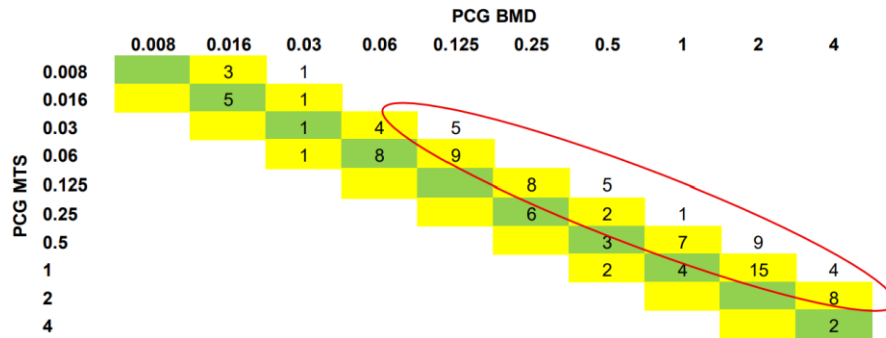
Essential agreement (EA) and bias were calculated according to ISO 20776-2 (2021). Acceptable limits are $\geq 90\%$ EA and less than $\pm 30\%$ bias.

Etest, bioMerieux



Essential agreement	91%
Bias	-45%

MTS, Liofilchem



Essential agreement	78%
Bias	-69%

MIC distributions for Benzylpenicillin, 2022-11-01

Antimicrobial: Benzylpenicillin (Method: MIC)

	0.002	0.004	0.008	0.016	0.03	0.06	0.125	0.25	0.5	1	2	4	8	16	32	64	128	256	512	Distributions	Observations	(T)ECOFF	Confidence interval
Streptococcus pneumoniae	105	415	3568	6770	2010	511	332	326	347	421	244	116	5	0	0	0	0	0	0	31	15161	0.06	0.016 - 0.06

Reactie van de CRG:

Het advies van de CRG is om geen gradiënt testen meer te gebruiken en de screening met oxacilline en penicilline disks te implementeren.

Indien gewenst kan een testpanel besteld worden om dit te verifiëren, zie hierboven.