

PCR DETECTION

Gene Variant Coverage

Streck ARM-D® vs. Cepheid Xpert Carba-R

ARM-D Kit β -Lactamase Detected Variants

Vial	Gene Family	Identified Variants	Sensitivity%	Specificity%
Mix 1	CMY-2 (CIT)	CMY-2, 4-7, 12-18, 20-51, 53-63, 65-69, 71, 72, 75-81, 84-87, 89, 90, 94-97, 99, 102, 105-108, 110-116, 118, 119, 121, 122, 124-126, 128, 130-135, 138-141, 143-146	96%	100%
	CTX-M-14	CTX-M-9, 13, 14, 16, 17, 19, 21, 24, 27, 38, 46-51, 65, 67, 73, 81-87, 90, 93, 98, 99, 102, 104, 105, 110-113, 121, 122, 125, 126, 129, 130, 134, 147, 148, 159, 161, 168, 174	100%	99%
	CTX-M-15	CTX-M-1, 3, 10, 12, 15, 22, 23, 28, 29, 30, 32, 36, 37, 52, 55, 58, 60, 61, 64, 69, 71, 72, 79, 80, 82, 96, 103, 114, 116, 117, 123, 132, 136, 138, 139, 142, 144, 150, 155-158, 163, 164, 166, 167, 170, 172, 173, 175, 176, 179, 180, 181, 183, 184	100%	100%
	Internal Control	16S rRNA		
Mix 2	IMP	IMP-1-4, 6, 7, 8, 9 , 10, 11 , 13, 14, 17, 18, 19, 20, 21, 22 , 23, 24, 25, 27, 30, 31, 32 , 33, 34 , 37, 40, 42, 43, 48, 49, 51, 52, 54-56, 60, 61, 63, 64, 67, 70-73, 75	100%	100%
	VIM	VIM-1, 2, 3 , 4-6, 7 , 8-12, 13 , 14-20, 23-38, 39-46, 49-51	100%	100%
	OXA-48	OXA-48, 162, 163, 181, 199, 204, 232, 244, 245, 247, 370, 405, 416, 438, 439, 505, 514, 515, 517, 519, 538, 546, 547, 566, 567	100%	100%
	Internal Control	16S rRNA		
Mix 3	KPC	KPC-1, 2-16, 17-22	100%	97%
	NDM	NDM-1-9, 10-21, 32	100%	100%
	DHA	DHA-1-7, 9, 10, 12-22	100%	100%
	Internal Control	16S rRNA		

ARM-D Kit *ampC* Detected Variants

Vial	Gene Family	Identified Variants	Sensitivity%	Specificity%
Mix 1	MOX	MOX-1-4, 8, 10, 11; CMY-1, 8-11, 19	100%	99%
	ACC	ACC-1, 4-6	100%	100%
	FOX	FOX-1-10, 12	100%	100%
	Internal Control	16S rRNA	100%	100%
Mix 2	DHA	DHA-1-7, 9, 10, 12-22	100%	100%
	CMY-2 (CIT)	CMY-2, 4-7, 12, 14-18, 20-39, 41-48, 50, 51, 53-69, 71, 72, 75-81, 84, 86, 87, 89, 90, 94-97, 99, 102, 103, 105, 107, 108, 110-118, 121, 122, 125-135, 138-143, 146	100%	100%
	ACT/MIR (EBC)	ACT-1-3, 5, 7, 8, 13-18, 20, 21, 23-25, 27, 29-39, 46, 47 MIR-1-10, 13-16, 18-20	100%	97%
	Internal Control	16S rRNA		

- Gene variant detected by both kits
- Gene variant only detected by Streck ARM-D Kits
- Gene variant only detected by Xpert Carba-R Kit

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