



STRECK

ARM-D[®] Kits

*Antibiotic resistance
monitoring and detection*



Detect over 1000
antimicrobial resistance
AMR gene variants from
the following families:

*Carbapenem-resistant
enterobacteriaceae*

KPC
NDM
OXA
VIM
IMP

Oxacillinase

OXA-23
OXA-48
OXA-51
OXA-58
OXA-24-40
OXA-143

*Extended Spectrum
 β -Lactamase*

CTX-M-14
CTX-M-15
TEM
SHV
GES

ampC

CMY
DHA
FOX
MOX
ACC

*Mobilized Colistin
Resistance*

mcr-1
mcr-2
mcr-3
mcr-4
mcr-5

About Streck ARM-D® Kits

ARM-D Kits provide a rapid detection strategy for monitoring β -lactam antibiotic resistance to improve AMR surveillance, aid antibiotic stewardship programs, and support infection control programs.

Ensure accurate results with antibiotic surveillance and infection control practices with ARM-D kits — comprehensive, real-time PCR kits that detect gene variants not covered by cartridge-based methods. Test for the presence of genes encoding carbapenemases, extended-spectrum β -lactamases, plasmid-mediated *ampC*s and other emerging threats.

- + Detect 26 antimicrobial resistance gene targets and over 1,000 variants
- + Protocol can be completed in less than one hour
- + Includes a premixed 2X master mix: DNA Polymerase, dNTPs, MgCl₂, and reaction buffer
- + Includes validated positive controls for each gene target to monitor analytical process
- + Ensure accurate and reliable results with a high degree of sensitivity and specificity
- + Screen bacterial isolates for AMR genes to complement phenotypic testing
- + Compatible with most 4-channel real-time PCR thermal cyclers
- + Validated amplification protocol and analysis guides available
- + Batch testing reduces cost per sample compared to cartridge-based methods

ARM-D® Kit, β-Lactamase Detected Variants

Vial	Gene Family	Detected Variants
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
	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
	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
	<i>Internal Control</i>	16S rRNA
Mix 2	IMP	IMP-1-4, 6-8, 10, 13, 14, 17-20, 23-25, 27, 30, 32-34, 37, 40, 42, 43, 48, 49, 51, 52, 54-56, 60, 61, 63, 64, 67, 70-73, 75
	VIM	VIM-1-6, 8-12, 14-20, 23-46, 49-51
	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
	<i>Internal Control</i>	16S rRNA
Mix 3	KPC	KPC-1-22
	NDM	NDM-1-21, 32
	DHA	DHA-1-7, 9, 10, 12-22
	<i>Internal Control</i>	16S rRNA

For Research Use only. Not for use in diagnostic procedures. A CE version of this kit is also available.

ARM-D Kit, ampC Detected Variants

Vial	Gene Family	Detected Variants
Mix 1	MOX	MOX-1-4, 8, 10, 11; CMY-1, 8-11, 19
	ACC	ACC-1, 4-6
	FOX	FOX-1-10, 12
	<i>Internal Control</i>	16S rRNA
Mix 2	DHA	DHA-1-7, 9, 10, 12-22
	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
	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
	<i>Internal Control</i>	16S rRNA

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ARM-D® Kit, MCR Detected Variants

Vial	Primer Set	ARM-D Kit, MCR Gene Targets
PCR Mix	<i>mcr-1</i>	<i>mcr-1.1-1.9, 1.11-1.15</i>
	<i>mcr-2</i>	<i>mcr-2.1</i>
	<i>mcr-3-4-5</i>	<i>mcr-3.1-3.16, 3.18-3.25, 4.1-4.6, 5.1-5.3</i>
	<i>Internal Control</i>	16S rRNA

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ARM-D Kit, OXA Detected Variants

Vial	Primer Set	Identified Variants
Mix 1	OXA-143	OXA-143, 182, 231, 253, 255, 499, 649, 825
	OXA-48	OXA-48, 162, 163, 181, 199, 204, 232, 244, 245, 247, 252, 370, 405, 416, 438, 439, 484, 505, 514, 515, 517, 519, 538, 546, 547, 566, 567, 788, 793, 920, 980
	OXA-24/40	OXA-24, 25, 26, 33, OXA-40, 72, 139, 160, 207, 437, 653
	<i>Internal Control</i>	16S rRNA
Mix 2	OXA-58	OXA-58, 96, 97, 164, 397, 420, 467, 512
	OXA-51	OXA-51, 64-71, 75-80, 82-84, 86-95, 98-100, 104, 106-113, 115-117, 120-128, 130-132, 138, 144, 148-150, 172-180, 194-197, 199-203, 206, 208, 216, 217, 219, 223, 234, 241, 242, 248-250, 254, 256, 259, 260-262, 312-317, 336-346, 365, 366, 371, 374-389, 391, 400-404, 406-409, 411-414, 424-426, 429-433, 441, 442, 480, 497, 507-511, 516, 521, 523-525, 528-532, 536, 545, 555-559, 562, 654, 680, 682, 683, 685-702, 704-707, 710, 712, 713, 715, 717, 719, 720, 733, 734, 739-744, 746-752, 754, 756, 758, 761, 763-765, 767-772, 774-776, 797-800
	OXA-23	OXA-23, 27, 49, 73, 103, 133, 134, 146, 165-171, 225, 239, 366, 398, 422, 423, 435, 440, 482, 483, 565, 657, 806-818
	<i>Internal Control</i>	16S rRNA

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ARM-D Kit, TEM/SHV/GES Detected Variants

Vial	Primer Set	ARM-D Kit, TEM/SHV/GES Gene Targets
PCR Mix	TEM	1-3, 6, 8, 10, 15, 22, 24, 28-30, 43, 45, 47-49, 52, 53, 55, 59, 60, 63, 67, 68, 70-72, 75-99, 101, 104-118, 120-122, 125-131, 133-137, 139, 141-144, 147-160, 162-164, 166-169, 171, 177, 182-185, 187-192, 197, 198, 199, 201, 205-209, 211, 213-217, 219, 220
	SHV	1-3, 7-9, 11-6, 18, 24, 26-36, 38, 40-46, 48-53, 55, 56, 59-62, 64-67, 69-83, 85, 86, 92-111, 120-127, 129, 132-137, 140-168, 172, 173, 178-180, 182, 183, 185-191, 193, 194, 196-228
	GES	1-37, 39, 40
	<i>Internal Control</i>	16S rRNA

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