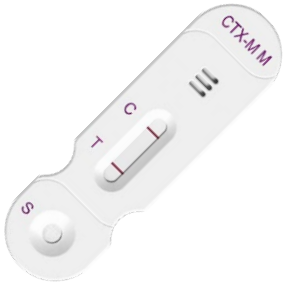
NG-TEST® CTX-M Multi Competitive Matrix

PRODUCT FEATURES	NG Biotech NG-TEST® CTX-M MULTI	BioMerieux BIOFIRE BCID2 Panel	Verigene Gram-Negative Blood Culture Test (BC-GN)	BD Phoenix ESBL Test	Thermo Fisher Sensititre ESBL Confirmatory test
					
Intended Use	NG-TEST® CTX-M Multi is an in vitro rapid and visual immunochromatographic assay for the qualitative detection of CTX-M enzymes (groups 1, 2, 8, 9, and 25) from pure colonies of Enterobacterales suspected of ESBL production when grown on the following media: 5% sheep blood agar or MacConkey agar (16-24 hrs), HardyCHROM™ ESBL agar (18-24).	Multiplex PCR test detects pathogesn and antimicrobial resistance genes commonly associated with bloodstream infections (BSI). One test with 43 targets. Molecular test for DNA, BCID stands for Blood Culture Identification.	Verigene BC-GN is a multiplex in vitro diagnostic test for the detection and identification of pathogenic Gram-negative bacteria. Subculturing is necessary for antimicrobial susceptibility testing and identification of organisms not detected by the test.	BD Phoenix panels, when used with the BD Phoenix M50, provides timely and accurate identification and susceptibility results for most clinially significant aerobic and facultative anaerobic Gram-negative and Gram-positive bacteria, as well as identification of yeast and year-like organisms.	A semi-quantitative test intended for the detection of ESBLs in clinical isolates of *Klebsiella pneumoniae, Klebsiella oxytoca* and *Escherichia coli*. Used in a diagnostic workflow to aid clinicians in determining potential treatment options for patients suspected of having a microbial infection.
Target Species	Enterobacterales	Enterobacterales (at least: *Klebsiella, Escherichia, Proteus*)	Enterobacterales (at least: *Klebsiella, Escherichia, Proteus*)	*Klebsiella, Escherichia*	*Klebsiella, Escherichia*
Incubation Time	15 minutes	1 hour	2 hours	< 16 hours	> 16 hours
Cost per Test	$445.25/pk 20	$1,596.00/pk 30	$150/cassette	$209/pk 25	$304/pk 10
Controls included?	There is a control line in the test	Yes	Yes	No	No
Performance	100% Sensitivity, 99.4% Specificity	99% Sensitivity, 99.8% Specificity	97.1% sensitivity 99.5% specificity	96% sensitivity 81% specificity	98.3% PPA and 96.4% NPA
Space Required	Cassette: 3 1/4" long, 1" wide; Box: 6 3/4" wide, 3 1/8" high, 5" deep	18" high, 29" high, 11.5" deep, 36 lbs	Processor: 7.6" wide, 19" high, 23" deep, 38 lbs; Reader: 12"high, 12" wide, 20" deep, 25 lbs	21" tall, 53.5" wide, 30" deep, 120 lbs.	25" wide, 28" high, 19" deep, 226 lbs
Advantages	• No other FDA-cleared, stand-alone LFA on the market • 15 minutes to result • Reduced cost than competitor • Little to no bench space needed • No other components needed!	• If customers have the BioFire, they are likely to use the panel • Needs significant bench/floor space!	• If customers have the Verigene, they are likely to use the panel • Needs significant bench/floor space!	• If customers have the BD Phoenix, they are likely to use the panel • Needs significant bench/floor space!	• If customers have the Sensititre system, they are likely to use the panel • Needs significant bench/floor space!
Disadvantages		Has to be used with automated system (base plus modules typically 12 of them)	Has to be used with automated system (processor and reader)	Has to be used with automated system	Has to be used with automated system
Platform Type	Colony, Phenotypic, Rapid	PBC Only, Molecular	PBC Only, Molecular	Colony, Phenotypic, but Overnight	Colony, Phenotypic, but Overnight