

ASTar® fully-automated system for rapid antimicrobial susceptibility testing (AST)

PRODUCT SPECIFICATION



Key features

- Delivers true MIC results in ~6 hours using broth microdilution
- Comprehensive panel with broad, consecutive 2-fold dilution ranges including antimicrobials for non-fastidious and fastidious bacteria
- Run directly from positive gram-negative blood culture samples
- Less than 2-minutes hands-on time
- CE-IVD approved to generate MIC and interpretations based on EUCAST Breakpoints* and Expert rules**

Kit specifications

Product	Order number	Component	Storage temperature
ASTar BC G– Consumable kit (20 units)	5000 3905	Disc - Closed container with dried antimicrobials in consecutive 2-fold dilution steps	+15 to +25° C
		Cartridge - Container with reagents and material for sample processing, determining, and adjusting inoculum	+15 to +25° C
ASTar BC G– Frozen insert (20 units)	5000 3855	Frozen reagents for sample preparation to be inserted in cartridge	-15 to -25° C

ASTar BC G – Kit software

Built-in analysis software using proprietary algorithms to give true MIC results and interpretation into S, I, R or pos/neg (for screening) based on EUCAST Breakpoints* and EUCAST Expert rules** and comments to give further guidance directly on the screen on the ASTar Instrument.

*=The European Committee on Antimicrobial Susceptibility Testing (EUCAST) Breakpoint tables for interpretation of MICs and zone diameters. Version 10.0, 2020. <http://www.eucast.org>

**=EUCAST intrinsic Resistance and Unusual Phenotypes v 3.2, February 2020 & EUCAST Expert Rules v 3.2 on Enterobacterales, June 2019

Table 2. Reportable ranges for antimicrobials and bacteria covered by ASTar BC G– Kit (EUCAST). Dot indicate where MIC results and interpretations (when applicable) will be presented.

Antimicrobial class	Antimicrobial agent	Reportable range (mg/L)		<i>C. freundii</i>	<i>C. koseri</i>	<i>E. cloacae</i> complex	<i>E. coli</i>	<i>K. aerogenes</i>	<i>K. oxytoca</i>	<i>K. pneumoniae</i>	<i>M. morganii</i>	<i>P. mirabilis</i>	<i>P. vulgaris</i>	<i>S. marcescens</i>	<i>P. aeruginosa</i>	<i>A. baumannii</i>	<i>H. influenzae</i>	Dilution steps
Non-fastidious																		
Penicillin	Amoxicillin-clavulanic acid ¹	1	32		•		•		•	•		•	•					6
Penicillin	Ampicillin	1	64				•					•						7
Penicillin	Piperacillin-tazobactam ²	0.25	256	•	•	•	•	•	•	•	•	•	•	•	•			11
Cephalosporin	Cefazolin	0.25	16				•		•	•								7
Cephalosporin	Cefepime	0.125	64	•	•	•	•	•	•	•	•	•	•	•	•	•		10
Cephalosporin	Cefotaxime	0.016	128	•	•	•	•	•	•	•	•	•	•	•				14
Cephalosporin	Cefoxitin	1	64				•		•	•		•						7
Cephalosporin	Ceftazidime	0.25	64	•	•	•	•	•	•	•			•	•	•			9
Cephalosporin	Ceftazidime-avibactam ³	0.125	32	•	•	•	•	•	•	•	•	•	•	•	•	•		9
Cephalosporin	Ceftolozane-tazobactam ²	0.125	32	•	•	•	•	•	•	•	•		•	•	•			9
Cephalosporin	Ceftriaxone	0.016	128	•	•	•	•	•	•	•		•	•	•				14
Cephalosporin	Cefuroxime	1	64				•		•	•		•						7
Carbapenem	Ertapenem	0.03	16	•	•		•		•	•	•							10
Carbapenem	Meropenem	0.03	64	•	•	•	•	•	•	•	•	•	•	•	•			12
Monobactam	Aztreonam	0.25	64	•	•	•	•	•	•	•	•	•	•	•	•			9
Fluoroquinolone	Ciprofloxacin	0.06	8	•	•	•	•	•	•	•	•	•	•	•	•	•		8
Fluoroquinolone	Levofloxacin	0.125	16	•	•	•	•	•	•	•	•	•	•	•		•		8
Aminoglycoside	Amikacin	0.5	128	•	•	•	•	•	•	•	•		•	•		•		9
Aminoglycoside	Gentamicin	0.25	32	•	•	•	•	•	•	•	•	•	•	•		•		8
Aminoglycoside	Tobramycin	0.125	32	•	•	•	•	•	•	•	•	•	•	•	•	•		9
Tetracycline	Tigecycline	0.016	16		•		•											11
Miscellaneous	Colistin	0.125	8				•			•								7
Miscellaneous	Trimethoprim-sulfamethoxazole ⁴	0.03	8	•	•	•	•	•	•	•	•		•	•				9
Fastidious																		
Penicillin	Amoxicillin-clavulanic acid ¹	0.5	16														•	6
Penicillin	Ampicillin	0.016	4														•	9
Fluoroquinolone	Levofloxacin	0.016	8														•	10

¹ For susceptibility testing purposes, the concentration of clavulanic acid is fixed at 2 mg/L

² For susceptibility testing purposes, the concentration of tazobactam is fixed at 4 mg/L

³ For susceptibility testing purposes, the concentration of avibactam is fixed at 4 mg/L

⁴ Trimethoprim:sulfamethoxazole in the ratio 1:19

To find instructions for use and other support, visit:

www.qlinea.com/support-zone

www.qlinea.com

Q-linea and ASTar are registered trademarks of Q-linea AB.

Patents: www.qlinea.com/patents/

© Q-linea AB 2021. Q-linea AB, Dag Hammarskjölds väg 52 A, SE 752 37 Uppsala, Sweden.

Product is CE-IVD certified. For regions outside EU/EES please contact your local representative.