Table S1. Characterization included studies.

|  |  |
| --- | --- |
|  | QUALITY ASSESSMENT  |
| Study ID | Time of study | country  | WHO regional  | method group  | N. isolate bacteria | Q1=1 | Q2=1 | Q3=1 | Q4=2 | Q5=1 | Q6=1 | Q7=1 | Total score of 8 |
| Caroline 2002 | 2000 | UK | Europe | MIC/E-test | 443 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 4 |
| Ayan2003 | 2000-2001 | Turkey | Europe | Disk diffusion | 52 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 6 |
| Ana2004 | 1998-2000 | Spain | Europe | MIC/E-test | 221 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 6 |
| Arroyo2005  | 2003 | Spain | Europe | MIC/E-test | 115 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 3 |
| Tan2006\* | 2004 | Singapore | Western Pacific | MIC/E-test | 18 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 4 |
| Tan2006 | 2004 | Singapore | Western Pacific | MIC/E-test | 61 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 4 |
| Karen2006 | 2005 | USA | America | MIC/E-test | 42 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 6 |
| Thean2007 | 2005 | Singapore | Western Pacific | MIC/E-test | 44 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 4 |
| Joshua2007 | 2006 | USA | America | MIC/E-test | 142 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 5 |
| Oteo2007 | 2003-2004 | Spain | Europe | MIC/E-test | 354 | 1 | 1 | 1 | 2 | 1 | 0 | 1 | 7 |
| Joon2007 | 2002-2006 | Korea | South-East Asia | MIC/E-test | 43 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 4 |
| Kwan2007 | 2002-2006 | Korea | South-East Asia | MIC/E-test | 214 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 4 |
| Maria2008 | 2002-2003 | Italy | Europe | MIC/E-test | 107 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 6 |
| Melda2008 | 2004-2005 | Turkey | [Europe](https://en.wikipedia.org/wiki/North_Africa) | Disk diffusion | 100 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
| Kim2008\* | 2007 | Korea | [South-East Asia](https://en.wikipedia.org/wiki/North_Africa) | MIC/E-test | 42 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
| Kim2008 | 2007 | Korea | South-East Asia | MIC/E-test | 42 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 3 |
| Warunee2008 | 2006-2007 | Thailand | South-East Asia | MIC/E-test | 24 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 6 |
| Wisplinghoff2011 | USA | America | MIC/E-test | 295 |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| JAPONI2011 | 2008-2009 | Iran | Eastern Mediterranean | MIC/E-test | 88 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
| Ladavac | 2009 | Croatia | Europe | MIC/E-test | 69 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 3 |
|  Medella2012 | 2011 | Cuba | America | Disk diffusion | 17 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
| Medella2011 | 2007 - 2010 | Cuba | America | Disk diffusion | 187 | 1 | 1 | 0 | 2 | 1 | 1 | 1 | 7 |
| Paul2012 | 2011 | USA | America | MIC/E-test | 310 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 3 |
| Anne2012 | 2010 | USA | America | MIC/E-test | 514 |  |  |  |  |  |  |  |  |
|  Hamzeh Bpharm2012 | 2008-2011 |  Syria | Eastern Mediterranean | Disk diffusion | 260 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 3 |
|  Karmostaj2012 | 2009-2010 | Iran | Eastern Mediterranean | Disk diffusion | 84 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
|  Farajnia2012 | Iran | Eastern Mediterranean | Disk diffusion | 100 |  | 0 | 1 | 0 | 1 | 0 | 0 | 1 |
| Pooshaneh2012 | Iran | Eastern Mediterranean | Disk diffusion | 100 |  | 0 | 1 | 1 | 1 | 1 | 0 | 1 |
| Bahador2012 | 2011-2012 | Iran | Eastern Mediterranean | Disk diffusion | 100 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
|  Somily2012 | 2010 | Saudi Arabia | Eastern Mediterranean | MIC/E-test | 84 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
|  Higgins2012 | 2010-2011 | Germany | Europe | MIC/E-test | 310 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
| Papaioannou2012 | 2010-2011 | Greece | Europe | Vitek2 | 324 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 4 |
| Samonis2012 | 2004-2011 | Greece | Europe | Vitek2 | 1266 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 4 |
| Maraki 2012 | 2004 -2009 | Greece | Europe | Disk diffusion | 137 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
| Francesco2012 | 2007-2010 | Italy | Europe | Disk diffusion | 167 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 8 |
| Grigoryevskaya | 2011 | Russia | Europe | Disk diffusion | 98 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 4 |
| Ergin2012 | 2004-2010 | Turkey | Europe | MIC/E-test | 100 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 6 |
|  Bakour2013 | 2010-2011 | Algeria | [Africa](https://en.wikipedia.org/wiki/North_Africa) | Disk diffusion | 71 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 3 |
| Mesli2013 | 2008-2012 | Algeria | Africa | MIC/E-test | 113 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 4 |
|  Medell2013 | 2011 | Cuba | America | Vitek2 | 53 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
| Nikasa2013 | Iran | Eastern Mediterranean | Disk diffusion | 65 |  | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| Bahador2013 | 2012 | Iran | Eastern Mediterranean | Disk diffusion | 91 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
|  Bahador2013 |  2011 - 2012 | Iran | Eastern Mediterranean | Disk diffusion | 100 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
| Safari2013\* |  2011 - 2012 | Iran | Eastern Mediterranean | Disk diffusion | 100 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 8 |
|  Safari2013\*\* |  2011 - 2012 | Iran | Eastern Mediterranean | Disk diffusion | 100 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 8 |
|  Safari2013\*\*\* |  2011 - 2012 | Iran | Eastern Mediterranean | MIC/E-test | 100 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 8 |
| Safa2013 |  2011 - 2012 | Iran | Eastern Mediterranean | MIC/E-test | 100 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 8 |
|  Safari2013 |  2011 - 2012 | Iran | Eastern Mediterranean | MIC/E-test | 100 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 8 |
|  Mohajeri2013 | 2010-2011 | Iran | Eastern Mediterranean | Disk diffusion | 104 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
|  Karmostaji2013 | 2010–2011 | Iran | Eastern Mediterranean | Disk diffusion | 123 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
|  Alsultan2013\* | 2008-2011 | Saudi Arabia | Eastern Mediterranean | MIC/E-test | 20 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 4 |
|  Asaad2013\* | 2012-2013 | Saudi Arabia | Eastern Mediterranean | MIC/E-test | 68 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
|  Asaad2013 | 2012 - 2013 | Saudi Arabia | Eastern Mediterranean | MIC/E-test | 68 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 8 |
|  Abdalla2013 | 2011-2012 | Saudi Arabia | Eastern Mediterranean | Disk diffusion | 150 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 4 |
|  Alsultan2013 | 2008-2011 | Saudi Arabia | Eastern Mediterranean | MIC/E-test | 196 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 4 |
| Baadani 2013 | Saudi Arabia | Eastern Mediterranean | Vitek2 | 1307 |  | 1 | 0 | 1 | 1 | 1 | 0 | 1 |
|  Chaari2013 | 2009-2011 | Tunisia | Eastern Mediterranean | Disk diffusion | 92 | 1 | 1 | 1 | 2 | 1 | 0 | 1 | 7 |
| Chaari2013 | 2010-2011 | Tunisia | Eastern Mediterranean | Disk diffusion | 92 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 8 |
| sieniawski2013 | 2011 | Poland | Europe | Disk diffusion | 140 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 3 |
| Martı´n-Pen ˜a2013 | 2002 | Spain | Europe | MIC/E-test | 48 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 6 |
| Reyes 2012 | 2002 | Spain | Europe | MIC/E-test | 48 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 6 |
| Gül2013 | 2011 | Switzerland | Europe | Disk diffusion | 69 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 3 |
| Tekin2013 | 2008-2011 | Turkey | Europe | other methods | 39 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 6 |
|  Hakyemez2013 | 2009-2011 | Turkey | Europe | Vitek2 | 56 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
| Cicek2013 |  2011 - 2012 | Turkey | Europe | Vitek2 | 101 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 6 |
| Metan2013 | 2006-2011 | Turkey | Europe | Disk diffusion | 11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
| Dede2013 | 2010-2011 | Turkey | Europe | Disk diffusion | 172 |  |  |  |  |  |  |  |  |
|  Hakkı2013 | 2008-2011 | Turkey | Europe | Disk diffusion | 834 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
|  NAHAR2013 | 2010 | Bangladesh | South-East Asia | Disk diffusion | 52 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 4 |
|  Chaudhary2013 | 2012-2013 | India | South-East Asia | Disk diffusion | 454 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
| Yeob Lee2013 | 2008-2011 | Korea | South-East Asia | Vitek2 | 94 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
|  Yeob Lee2013 | 2008-2011 | Korea | South-East Asia | MIC/E-test | 213 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
| Sung2013 | 2000-2008 | Taiwan | South-East Asia | MIC/E-test | 64 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
| Sung Yang2013 | 2000-2008 | Taiwan | South-East Asia | MIC/E-test | 71 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
| Castanheira2014 | 2007-2011 | USA | America | MIC/E-test | 5478 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
| Al-Agamy2014 | 2012 | Egypt | Eastern Mediterranean | Disk diffusion | 40 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
| .Al-Agamy2014 | 2012 | Egypt | Eastern Mediterranean | MIC/E-test | 40 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
|  Mohajeri2014 | Iran | Eastern Mediterranean | Disk diffusion | 84 |  |  |  |  |  |  |  |  |
| Mohammad Ahanjan 2014 | 2012-2013 | Iran | Eastern Mediterranean | Disk diffusion | 100 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
| Aliakbarzade2014 | 2012-2013 | Iran | Eastern Mediterranean | Disk diffusion | 103 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
|  Hasan2014 | 2010-2011 | Pakistan | Eastern Mediterranean | Disk diffusion | 90 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 6 |
|  Elabda2014 | 2013-2014 | Saudi Arabia | Eastern Mediterranean | MIC/E-test | 108 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
| .Alsultan2014 | 2012 | Saudi Arabia | Eastern Mediterranean | Vitek2 | 64 | 1 | 1 | 1 | 2 | 1 | 0 | 1 | 7 |
|  Custovic2014 | 2013 | Bosnia  | Europe | Vitek2 | 54 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 4 |
|  Altun2014\*\* | 2010-2012 | Turkey | Europe | Disk diffusion | 30 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 6 |
|  Altun2014\* | 2010-2012 | Turkey | Europe | MIC/E-test | 27 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
|  Altun2014 | 2010-2012 | Turkey | Europe | MIC/E-test | 30 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
| Guzel2014 | 2010-2011 | Turkey | Europe | MIC/E-test | 60 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 6 |
| Gulfem 2014 | 2011-2012 | Turkey | Europe | MIC/E-test | 98 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 4 |
|  Ghafur2014 | 2013-2014 | India | South-East Asia | Vitek2 | 28 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 3 |
| Young2014 | 2007-2013 | Korea | South-East Asia | MIC/E-test | 20 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
| Young Choi2014 | 2007-2013 | Korea | South-East Asia | MIC/E-test | 52 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
| Wei2014 | 2010-2013 | Taiwan | South-East Asia | other methods | 28 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
| Shan Huang2014 | 2009-2011 | Taiwan | South-East Asia | Vitek2 | 146 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 8 |
|  Minh2015 | 2011-2012 | Vietnam | Western Pacific | Disk diffusion | 74 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 8 |
| Zorgani2015 | Libya | Africa | other methods | 16 |  |  |  |  |  |  |  |  |
|  Lowings2015 | 2013 | South Africa | Africa | Vitek2 | 94 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
| Vanegas | 2012-2014 | Colombia | America | Vitek2 | 32 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
|  quiñones2015 | 2010-2012 | Cuba | America | MIC/E-test | 500 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
| Zubair2015 | 2007-2014 | USA | America | MIC/E-test | 38 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
| [Mahdian2015](https://www.ncbi.nlm.nih.gov/pubmed/?term=Mahdian%20S%5BAuthor%5D&cauthor=true&cauthor_uid=26111484) | Iran | Eastern Mediterranean | Disk diffusion | 37 |  | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Gholami 2015 | 2013 | Iran | Eastern Mediterranean | Disk diffusion | 60 | 1 | 1 | 1 | 2 | 1 | 0 | 1 | 7 |
| Azizi2015 | 2013 | Iran | Eastern Mediterranean | MIC/E-test | 65 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
| Farshadzad2015 | 2012-2013 | Iran | Eastern Mediterranean | Disk diffusion | 69 | 1 | 0 | 1 | 2 | 1 | 1 | 1 | 7 |
| Farshad2015 | 2012-2013 | Iran | Eastern Mediterranean | MIC/E-test | 69 | 1 | 0 | 1 | 2 | 1 | 1 | 1 | 7 |
| Alaei2015 | 2010-2011 | Iran | Eastern Mediterranean | Disk diffusion | 85 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
|  Anvarinejad2015 | 2011 | Iran | Eastern Mediterranean | MIC/E-test | 93 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 8 |
|  Najar Peerayeh2015 | 2010-2013 | Iran | Eastern Mediterranean | Disk diffusion | 123 | 1 | 0 | 1 | 2 | 1 | 0 | 1 | 6 |
| Batarseh2015 | 2013 | Jordan | Eastern Mediterranean | Vitek2 | 116 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
| Zafar2015 | 2014 | Pakistan | Eastern Mediterranean | Disk diffusion | 52 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 4 |
| Ljubović2015 | 2011-2012 | Bosnia  | Europe | Vitek2 | 257 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 4 |
|  Dafopoulou2015 | 2008-2013 | Greece | Europe | MIC/E-test | 20 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
| Esposito2015 | 2011-2013 | Italy | Europe | Vitek2 | 53 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 6 |
| Cikman2015 | 2013-2014 | Turkey | Europe | MIC/E-test | 40 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 6 |
|  direkel2015 | 2012-2014 | Turkey | Europe | Disk diffusion | 531 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 5 |
|  Chen2015 | 2012 | China | South-East Asia | MIC/E-test | 100 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 6 |
| Wang2015 | 1998-2008 | China | South-East Asia | MIC/E-test | 271 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
| Mahamat2016 | 2008-2014 | French Guiana | Africa | Disk diffusion | 441 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 8 |
| Uwingab2016 | 2012-2014 | Maroc | Africa | MIC/E-test | 441 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
| Jean2016 | 2012-2014 | Maroc | Africa | Disk diffusion | 441 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 4 |
| Odewale2016 | Nigeria | Africa | Disk diffusion | 11 |  | 1 | 1 | 1 | 1 | 1 | 0 | 1 |
| Hoosen2016 | 2015 | South Africa | Africa | Vitek2 | 133 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 3 |
| Leite2016 | Brazil | America | MIC/E-test | 20 |  | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| Rossi2016 | 2010-2014 | Brazil | America | MIC/E-test | 7446 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 5 |
| Legor2016 | 2009-2010 | Mexico | America | MIC/E-test | 32 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 6 |
| Carroll2016 | 2009-2013 | USA | America | Disk diffusion | 313 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
| Flam2016 | 2009-2011 | USA | America | MIC/E-test | 665 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 6 |
| Flamm2016 | 2013 | USA | America | MIC/E-test | 1312 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
| Zilberberg2016 | 2003-2012 | USA | America | MIC/E-test | 39320 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 5 |
| Maspi2016 | 2014-2015 | Iran | Eastern Mediterranean | Disk diffusion | 86 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
| Moghad2016 | 2012-2013 | Iran | Eastern Mediterranean | Disk diffusion | 98 | 1 | 1 | 1 | 2 | 1 | 0 | 1 | 7 |
| Pourhajibagher2016 | 2012-2013 | Iran | Eastern Mediterranean | Disk diffusion | 100 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 4 |
| Sepahvand2016 | Iran | Eastern Mediterranean | MIC/E-test | 100 |  | 0 | 1 | 1 | 1 | 1 | 0 | 1 |
| Shoj2016 | 2011-2013 | Iran | Eastern Mediterranean | MIC/E-test | 124 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
| Adibhesami | 2012-2013 | Iran | Eastern Mediterranean | Disk diffusion | 171 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
| Tarashi2016 | 2012-2015 | Iran | Eastern Mediterranean | Disk diffusion | 189 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 4 |
| Jasemi2016 | 2011-2013 | Iran | Eastern Mediterranean | Disk diffusion | 401 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
| Kassim2016 | 2015 | Iraq | Eastern Mediterranean | Disk diffusion | 96 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 4 |
| Chamoun2016 | 2011-2013 | Lebanon | Eastern Mediterranean | Disk diffusion | 3343 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
| Qadeer2016 | 2015-2016 | Pakistan | Eastern Mediterranean | Disk diffusion | 87 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
| Sohail2016 | 2012-2014 | Pakistan | Eastern Mediterranean | MIC/E-test | 716 | 1 | 1 | 1 | 2 | 1 | 0 | 1 | 7 |
| Al Samawi2016 | 2012-2013 | Qatar | Eastern Mediterranean | MIC/E-test | 239 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
| El-Mahdy2016 | 2014 | Saudi Arabia | Eastern Mediterranean | Vitek2 | 10 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 5 |
| Al Bshabshe | 2014-2015 | Saudi Arabia | Eastern Mediterranean | Vitek2 | 49 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 5 |
| Rolain2016 | 2011-2012 | France | Europe | MIC/E-test | 48 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 5 |
| Maraki2016 | 2010-2014 | Greece | Europe | Vitek2 | 914 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
| Chmiela2016 | 2013 | Poland | Europe | Disk diffusion | 125 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
| Chmielarcz2016 | 2013 | Poland | Europe | MIC/E-test | 125 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
| Guzek2016 | 2005-2015 | Poland | Europe | Vitek2 | 764 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 5 |
| Marin2016 | 2010-2011 | Spain | Europe | MIC/E-test | 100 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 8 |
| ALTUN2016 | 2011-2012 | Turkey | Europe | Vitek2 | 44 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 6 |
| ÇETİNKOL2016 | 2013-2014 | Turkey | Europe | MIC/E-test | 50 |   |  |  |  |  |  |  |  |
| Şaban BERİŞ | 2011-2012 | Turkey | Europe | Vitek2 | 519 |  |  |  |  |  |  |  |  |
| TAUHID JAMIL2016 | 2011 | Bangladesh | South-East Asia | Disk diffusion | 78 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
| Wentao2016 | 2014-2015 | China | South-East Asia | MIC/E-test | 24 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
| Jasani2016 | 2012 | India | South-East Asia | Disk diffusion | 13 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
| Gupta2016 | 2012-2013 | India | South-East Asia | Vitek2 | 32 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 3 |
|  Ramadevi2016 | 2015-2016 | India | South-East Asia | Disk diffusion | 42 |  |  |  |  |  |  |  |  |
| POOJA B 2016 | 2013 | India | South-East Asia | Vitek2 | 51 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 4 |
| Muthusamy2016 | 2014 | India | South-East Asia | Vitek2 | 100 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 5 |
| Jain2016 | 2014-2015 | India | South-East Asia | Vitek2 | 214 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 4 |
| Gandra2016 | 2008-2014 | India | South-East Asia | MIC/E-test | 1047 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
| Cheol Park2016 | 2009-2014 | Korea | South-East Asia | MIC/E-test | 69 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |
| Hak Kim2016 | 1999-2009 | Korea | South-East Asia | MIC/E-test | 50 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
| Hong2016 | Korea | South-East Asia | MIC/E-test | 170 |  | 0 | 1 | 0 | 1 | 0 | 0 | 1 |
| Jean2016\* | 2007 | Taiwan | South-East Asia | MIC/E-test | 100 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 8 |
| Pan Liu2016 | 2009-2012 | Taiwan | South-East Asia | Vitek2 | 182 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 8 |
| Rossi2017 | 2010-2014 | Brazil | America | Vitek2 | 7446 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 3 |
| Laishram2017 | 2013-2014 | India | South-East Asia | MIC/E-test | 50 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 6 |
| Jin Cho2017 | 2012 | Korea | South-East Asia | MIC/E-test | 38 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |