

Battelle Criteriome rapidly reports on drug resistance, enabled by genetic elements.

Elements
Drugs
Species

Name: Report for sample152 at 2014-04-14

Description: metagenomic NGS data for sample NRS_152, add AcrAB and TolC

Date: 2014-04-14 15:15:43.0

	Drug Name	Class	No of Elements
	Novobiocin	Aminocoumarin antibiotic	8
	Norfloxacin	Fluoroquinolone	6
	Nalidixic_acid	Fluoroquinolone	6
Drugs:	Tetracycline	Tetracycline derivative	5
	Erythromycin	Macrolide	3
	Cloxacillin	Beta-lactam	3
	Ciprofloxacin	Fluoroquinolone	3
	Oxacillin	Beta-lactam	3
	Enoxacin	Fluoroquinolone	2

Multiple components factors:

- AcrAB-TolC from Escherichia coli** is composed of **AcrA from Escherichia coli TolC from Escherichia coli AcrB from Escherichia coli**
 Definition: AcrAB-TolC is a tripartite RND efflux system that confers resistance to many antibiotics in Escherichia coli. The system spans the cell membrane (AcrB) and the outer-membrane (TolC), and is linked together in the periplasm by AcrA.
 Drugs resist to: Cloxacillin, Novobiocin, Nalidixic_acid, Erythromycin, Tetracycline, Norfloxacin, Oxacillin,
 - AcrA from Escherichia coli(NP_309890: multidrug-efflux transport protein [Escherichia coli O157:H7 str. Sakai])
 - AcrB from Escherichia coli(NP_309891: multidrug-efflux transport protein [Escherichia coli O157:H7 str. Sakai])
 - TolC from Escherichia coli(CAA24914: unnamed protein product [Escherichia coli K-12])
 References: [21513882](#);

Single component factors:

- Tet38 from Staphylococcus aureus(AAV80464: tetracycline resistant protein Tet38 [Staphylococcus aureus])
 Drugs resisted to: Tetracycline,
 References: [15774883](#);

Summary Drug Report

Every day, the people of Battelle apply science and technology to solving what matters most. At major technology centers and national laboratories around the world, Battelle conducts research and development, designs and manufactures products, and delivers critical services for government and commercial customers. Headquartered in Columbus, Ohio since its founding in 1929, Battelle serves the national security, health and life sciences, and energy and environmental industries. For more information, visit www.battelle.org.

614.424.3600 | solutions@battelle.org | www.battelle.org

