



Revolutionising the Traditional Approach to Medicine

a first-in-class anti-infective pursuing multiple indications

No ESKAPE

Six of the most deadly Gram-positive and Gram-negative bacterial infections are collectively known as ESKAPE pathogens. These bacteria pose an extreme threat due to their difficult to treat, multi-drug resistant properties.

Dubbed ESKAPE for their propensity of 'escaping' the biocidal action of antibiotics, the acronym stands for:

E *Enterococcus faecium* (*E. faecium*)

S *Staphylococcus aureus* (*S. aureus*)

K *Klebsiella pneumoniae* (*K. pneumoniae*)

A *Acinetobacter baumannii* (*A. baumannii*)

P *Pseudomonas aeruginosa* (*P. aeruginosa*)

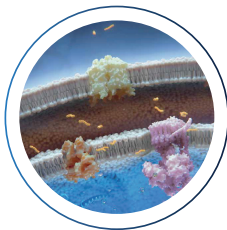
E *Enterobacter* (*E. cloacae*) species.

Results from an independent study found RECCE® 327 to be 99.9% (3-log reduction) bactericidal against the full suite of ESKAPE pathogens, within hours of exposure. RECCE® 327 is positioned as one of the only synthetic compounds in clinical development in the world that has demonstrated *in vitro* bactericidal activity against all six ESKAPE pathogens, including their multi-drug resistant forms.

Mechanism of Action

Independent studies undertaken by world leaders in bacterial Mechanism of Action (MoA) analysis and antibiotic profiling, highlighted RECCE® 327 having a multi-layered MoA.

RECCE® 327 was found to be rapidly and irreversibly bactericidal against Gram-negative *Escherichia coli* bacteria, in both active and stationary phase cells – outperforming best in class commercial antibiotics.

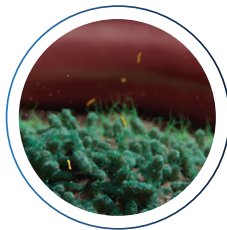
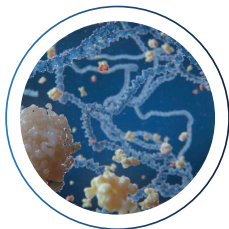


Stage 1

R327 arrests cell growth
permeabilizes cell
membranes

Stage 2

R327 disrupts bacterial
cellular energetics,
depleting ATP

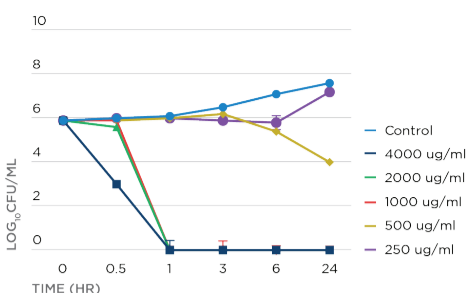
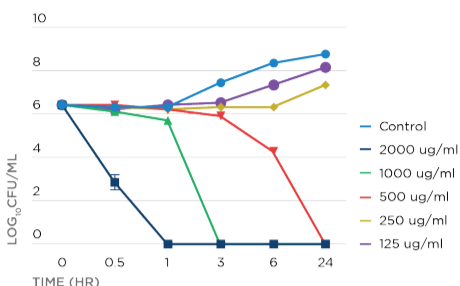
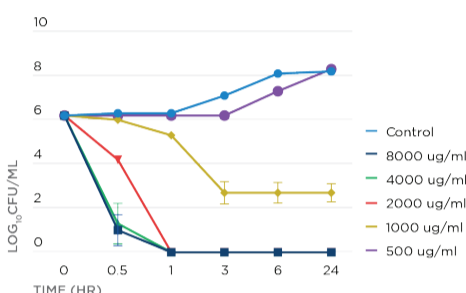
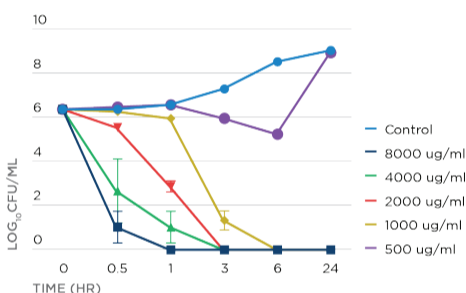
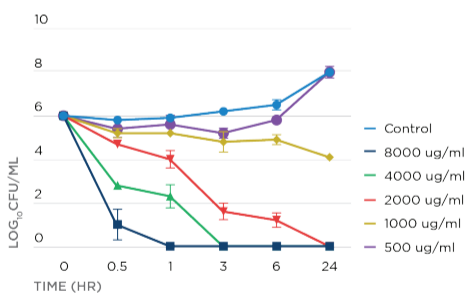


Stage 3

R327 inhibits major bacterial
metabolic pathways including
protein synthesis and cell
division

Stage 2

R327 is rapidly and
irreversibly bactericidal

E. faecium ATCC 434***S. aureus*** ATCC 29213***K. pneumoniae*** ATCC 43816***A. baumannii*** ATCC 17978***P. aeruginosa*** ATCC 27853***E. faecium*** ATCC 434