

## Resistance of Mycobacterium tuberculosis to Daptomycin

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**Abstract :** Tuberculosis is still major health problem because there is an increase of multidrug-resistant and extensively drug-resistant forms of the disease. Therefore, the most urgent clinical need is to discover potent agents and develop novel drug combination capable of reducing the duration of MDR and XDR tuberculosis therapy. Three reference strains H37Rv, CDC1551, W-Beijing GC1237 and six clinical isolates of MDRTB were tested to daptomycin in the range of 0.013 to 256 mg/L. Daptomycin is resistant to all tested M. tuberculosis strains not only laboratory strains but also clinical MDR strains that were isolated at different source. Daptomycin will not be an antibiotic of choice for treating infection of Gram positive atypical slowly growing M. tuberculosis.

**Keywords :** tuberculosis, daptomycin, resistance, Mycobacterium tuberculosis

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