





# Staphylococcus aureus (MSSA ATCC 29213) - Thigh infection

## **Procedure Summary**

- Neutropenic CD-1 mice, eight weeks old females
- Staphylococcus aureus Methicillin-susceptible (MSSA) strain (ATCC 29213)
- Neutropenic status induced by 2 cyclophosphamide intraperitoneal (IP) administrations at D-4; 150mg/kg and D-1; 100mg/kg before infection (D0)
- Bacterial challenge by Intramuscular route
- Reference compound: Amoxicillin (IP)

#### **Experimental readouts**

- CFU determination of S. aureus strain in thighs
- Weight loss
- Survival rate
- Clinical score

# **Optional Services**

- Histology
- Cytokine and chemokine analysis
- Pharmacokinetics

## Literature / reference

Internal data

#### **Animal Welfare**

 Each experimental protocol is approved by the local ethics committee for animal experimentation of Grand Campus Dijon (Burgundy, France) and performed in accordance to the current recommendations of the European Institute of Health EU Directive 86/609

#### **Facilities**

 These assays are performed at our BSL2 laboratory / zootechnical center in Dijon, France

Bacterial killing effect in a murine model of experimental thigh infection induced by *Staphylococcus aureus* ATCC 29213 depending on various doses of amoxicillin (in mg/kg) at two time-points (p<0.05\*, p<0.01\*\*\*, p<0.001\*\*\*).

