vivexia
securing healthcare innovation

Infant rabbit model of Shiga-Toxin producing *Escherichia coli* enteritis

Procedure Summary

- Infant (2 days-old) New Zealand rabbits
- Shiga Toxin-producing *E. coli* strain
- Oral bacterial challenge
- Reference compounds: Test molecule

Experimental readouts

- Bacterial load in all segments of digestive tract, spleen and kidneys
- Weight loss
- T°C, dehydration
- Clinical disease severity score
- Diarrhea score
- Macroscopic score
- Histology (intestine, kidney …)

Optional Services

- CRP, Elisa
- Blood collection for biologics analysis
- Detection of Shiga toxin

References

- Ritchie *et al.*, Infection & Immunity. 2003 « Critical Roles for stx2, eae, and tir in Enterohemorrhagic *Escherichia coli*-Induced Diarrhea and Intestinal Inflammation in Infant Rabbits »
- Internal Data

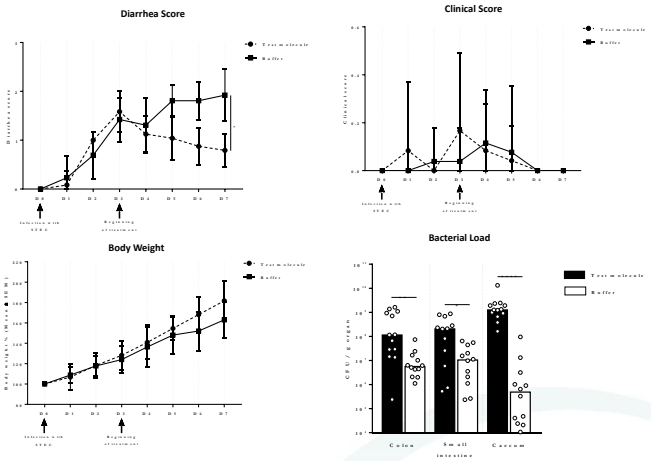
Animal Welfare

- 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 BSL2/3 laboratory / zootechnical center in Dijon, France

Efficacy of test molecule compared to buffer in infants' rabbits of digestive infection/colonization induced by STEC



Our scientific team will readily accomodate client-specific alterations and will provide expert advice and guidance for your efficacy studies

For more information please contact: **info@vivexia.fr**