



## **Service 2 – Establishment of extrinsic development cycles of human vector-borne pathogens**

**Institution:**

**PI of the project:**

**Species required:**

**Total number of specimens:**

**Type of biological sample (whole mosquitoes, dissected tissues or extracts):**

**Pathogen-infected cell lines:**

- C6/36, *Aedes albopictus*:
- Vero E6, *Cercopithecus aethiops*:
- A549, from human lung cancer:
- Caco2, from human intestinal adenocarcinoma:
- SW13, human cerebral adenocarcinoma:
- IDE8, from *Ixodes scapularis*:
- ISE6, from *Ixodes scapularis*:
- RSE8, from *Rhipicephalus sanguineus*:
- HAE/CTVM9, from *Hyalomma anatolicum*:
- HLE/LULS42, from *Hyalomma lusitanicum*:

**Pathogen DNA, RNA or cDNA:**

### **Production protocol**

Female mosquitoes aged 7-9 days are fed an infectious blood meal using the Hemotek system. After exposure, the mosquitoes are transferred to small containers and provided with a 10% sucrose solution. We maintain the mosquitoes under controlled environmental conditions, including temperature, light:dark cycle, and humidity, until a maximum of 14 or 21 days post-exposure.

Please specify the following details when making your request:

1. Age of mosquitoes: We use female mosquitoes aged 7-9 days for our protocol. If you require mosquitoes of a different age, please let us know.
2. Blood meal source: The mosquitoes are fed an infectious blood meal using the Hemotek system. If you require a specific blood meal source, please contact us to discuss your options.
3. Post-exposure time point: We maintain the mosquitoes under controlled environmental conditions until a maximum of 14 or 21 days post-exposure. Please indicate which time point you require when making your request.
4. Environmental conditions: We maintain the mosquitoes under controlled environmental conditions, including temperature, light:dark cycle, and humidity. If you require specific environmental conditions, please let us know.

### **Product options**

When making your request, please specify the following options:

1. Time post-infection: Choose one time point in days post-infection (dpi) to harvest the samples. Primary midgut infection (3 dpi) or disseminated infection (7 or 14 dpi) are the most common options, but we can accommodate other times upon request. Please contact us to discuss your needs.
2. Whole or dissected: Instead of 50 whole mosquitoes, you may request material from dissected midguts, salivary glands, or ovaries, with the corresponding carcasses. We can provide 25 of each at the appropriate time point.
3. Form of material: We can supply whole mosquitoes or dissected tissues fixed in 70% ethanol, formalin, or another virus-inactivating fixative. This material is useful for DNA extraction from ethanol and immunohistochemistry, but not for RNA experiments or proteomics. Alternatively, we can provide whole mosquitoes or dissected tissues homogenized in a lysis buffer such as Trizol, which is validated for virus inactivation and suitable for RNA, DNA, and protein experiments. Finally, we can offer whole mosquitoes or dissected tissues frozen at -80°C or stored in RNALater, which do not efficiently inactivate the virus and are therefore shipped as infectious material. If you require other formats or preparations, please contact us to discuss your options.

We are happy to work with you to provide the material you need for your research.

### **Contacts**

Full Name:

Position:

Address:

E-mail:

Telephone: