



The Tick Cell Biobank South America Outpost

- Located at the Oswaldo Cruz Institute, Fiocruz, Rio de Janeiro, Brazil
- Managed jointly by Dr Flavio Alves Lara (Fiocruz) and Dr Bruna Baêta (Federal Rural University of Rio de Janeiro)
- Provides tick and insect cell lines and training in their maintenance
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Tick cell lines available from the Tick Cell Biobank South America Outpost, January 2025						
Tick species	Cell line name	Instar	Geographical origin	Culture medium	Incubation temperature	Reference
<i>Amblyomma variegatum</i>	AVL/CTVM17	Moulting larva	East Africa	L-15/H-Lac/L-15B	32 °C	Bell-Sakyi, 2004
<i>Hyalomma anatolicum</i>	HAE/CTVM8	Embryo	India	L-15/H-Lac	32 °C	Bell-Sakyi, 1991
<i>Ixodes ricinus</i>	IRE/CTVM19	Embryo	England	L-15	28 °C	Bell-Sakyi et al., 2007
<i>Ixodes scapularis</i>	IDE2	Embryo	USA	L-15B300	32 °C	Munderloh et al., 1994
<i>Ixodes scapularis</i>	IDE8	Embryo	USA	L-15B	32 °C	Munderloh et al., 1994
<i>Ixodes scapularis</i>	ISE6	Embryo	USA	L-15B300	32 °C	Kurtti et al., 1996
<i>Ixodes scapularis</i>	ISE18	Embryo	USA	L-15B300	32 °C	Munderloh et al., 1994
<i>Ornithodoros moubata</i>	OME/CTVM22	Embryo	East Africa	L-15/H-Lac	28 °C	Bell-Sakyi et al., 2009
<i>Rhipicephalus microplus</i>	BME/CTVM2	Embryo	Costa Rica	L-15	28 °C	Bell-Sakyi, 2004
<i>Rhipicephalus microplus</i>	BME/CTVM23	Embryo	Mozambique	L-15	28 °C	Alberdi et al 2012
<i>Rhipicephalus microplus</i>	BME/PIBB36	Embryo	Brazil	L-15	28 °C	Bell-Sakyi et al., 2018
<i>Rhipicephalus microplus</i>	BmVIII-SCC	Embryo	Mexico	L-15/MEM	28 - 32 °C	Holman and Ronald, 1980; Holman, 1981
<i>Rhipicephalus microplus</i>	RBME6	Embryo	Brazil	L-15B	28 - 30 °C	Lima-Duarte et al., 2021
<i>Rhipicephalus sanguineus</i>	RML-RSE	Embryo	USA	L-15/MEM	28 °C	Yunker et al., 1981; Bell-Sakyi et al., 2015
<i>Rhipicephalus sanguineus</i>	RML-15	Embryo	USA	L-15/MEM	28 °C	Yunker et al., 1981; Bell-Sakyi et al., 2015
<i>Rhipicephalus sanguineus</i>	RSE/PILS35	Embryo	France	L-15	28 °C	Koh-Tan et al., 2016
Insect cell lines available from the Tick Cell Biobank South America Outpost, January 2025						
<i>Culex pipiens</i>	CPE/LULS50	Embryo	United Kingdom	L-15	28 °C	Bell-Sakyi et al., 2021
<i>Culicoides nubeculosus</i>	CNE/LULS44	Embryo	United Kingdom	L-15	28 °C	Bell-Sakyi et al., 2020
<i>Culicoides nubeculosus</i>	CNE/LULS44	Embryo	United Kingdom	L-15/L-15B	28 °C	Bell-Sakyi et al., 2020
<i>Culicoides sonorensis</i>	KC	Embryo	USA	Schneider's Drosophila	28 °C	Wechsler et al., 1991
<i>Lutzomyia longipalpis</i>	LLE/LULS40	Embryo	Brazil	L-15/H-Lac/L-15B	28 °C	Bell-Sakyi et al., 2018
<i>Lutzomyia longipalpis</i>	LLE/LULS45	Embryo	Brazil	L-15B	28 °C	Bell-Sakyi et al., 2021
<i>Lutzomyia longipalpis</i>	LLL/LULS52	Larva	Brazil	L-15/L-15B	28 °C	Bell-Sakyi et al., 2021
<i>Rhodnius prolixus</i>	RPE/UFRRJCM1	Embryo	Brazil	L-15B	28 °C	Unpublished
<i>Rhodnius prolixus</i>	RPE/LULS53	Embryo	Venezuela	L-15	28 °C	Penrice-Randal et al., 2022
<i>Rhodnius prolixus</i>	RPE/LULS57	Embryo	Venezuela	L-15/H-Lac	28 °C	Penrice-Randal et al., 2022
<i>Triatoma infestans</i>	TIE/LULS54	Embryo	Paraguay	L-15	28 °C	Penrice-Randal et al., 2022
<i>Triatoma infestans</i>	TIE/LULS54sub	Embryo	Paraguay	L-15	28 °C	Penrice-Randal et al., 2022; Unpublished