

Evaluation of molecules with leishmanicidal activity in infected macrophages: SDS-LDH infection assay.

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Abstract

Leishmaniasis is a neglected tropical disease that kills around 25,000 people a year worldwide for the most severe form of the disease, visceral leishmaniasis. This disease is caused by trypanosomatids of the *Leishmania* genus. The shortage of new drugs and the appearance of resistance makes it necessary to search for new compounds with leishmanicidal activity. Screening of compounds can be performed in free-living forms of the parasite or in macrophages infected with *Leishmania*, this option being the most relevant for the search for drug candidate compounds. This work shows the development of a new simple and fast method with high capacity that can be carried out using a flow cytometer, thus eliminating the need for confocal microscopy for high throughput screening technology.

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