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Effect of Lipopolysaccharide extracted from Escherichia coli on the growth and development of promastigote of *Leishmania tropica* (In vitro study)

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Abstract : In the present study, the inhibitory effect of lipopolysaccharide extracted from *Escherichia coli*, on growth of *in vitro Leishmania tropica* promastigote was investigated. The results showed that the lipopolysaccharide investigated had possesses a marked inhibitory effect, at different concentration on growth of the promastigotes of *L. tropica*. The concentration 100 µg/ml showed 41% inhibition ratio where as it is about 50% at both 25, 250 µg/ml, which representing L.D.50. The concentration 50 µg/ml showed 67% inhibition ratio. Whereas the 75 and 500 µg/ml showed the highest inhibition ratio as it was 78% and 85%, respectively. Lipopolysaccharide had the same effect damper on number of cells, number of generation and the generation time.

Key Word : *Leishmania tropica*, Lipopolysaccharide(LPS), *Escherichia coli*, *Leishmania* Media Culture, Inhibitory Effect of LPS.

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