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Chlamydia trachomatis PCR

DOI:10.17504/protocols.io.zeef3be

Type: Protocol

Proper Citation

Ana Ximena Kiguen, Jessica Paola Mosmann, Raul Fernando Venezuela, Cecilia Gabriela Cuffini 2019. Chlamydia trachomatis PCR. protocols.io
dx.doi.org/10.17504/protocols.io.zeef3be

Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.zeef3be>

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Summary: OmpA gene PCR: PCR DNA extract (5 ?l) was used to amplify a 1087 pb fragment of the ompA gene of *C. trachomatis*, using primers NRO (5'CTCAACTGTAAGTGGTATTT3') and NLO (5'ATGAAAAAAGTCTTGAAATCG3'). PCR amplification processes commenced with a 4-minute denaturation step at 95°C and continued with 49 amplification cycles. Each cycle consisted of a first denaturation step at 95°C for 1 min, an annealing step at 55°C for 1 min and a final step of chain elongation at 72° C for 1.5 min. Cryptic Plasmid PCR: The primers used to generate a 201-bp fragment from the cryptic plasmid of *C. trachomatis* were CTP1 (5'-TAGTAACTGCCACITCATCA-3') and CTP2 (5'-TTCCCCTTGTAATTCGTTGC-3'). The PCR amplification consisted of DNA denaturation at 95°C for 4 min followed by 35 cycles of amplification. Each cycle consisted of 1 min at 95°C, 1 min at 55°C and 1.5 min at 72°C followed by a final elongation at 72°C for 4 min. The ompA gene and cryptic plasmid PCR products were visualized after electrophoresis in a 1% agarose gel by ECO-Gel 20.000X Highway staining. Positive and negative controls were used in all determinations of PCR.

Associated Publications: Kiguen AX, Marramá M, Ruiz S, Estofan P, Venezuela RF, Mosmann JP, Monetti MS, Rivero V, Cuffini CG (2019) Prevalence, risk factors and molecular characterization of *Chlamydia trachomatis* in pregnant women from Córdoba, Argentina: A prospective study. PLoS ONE 14(5): e0217245. doi: [10.1371/journal.pone.0217245](https://doi.org/10.1371/journal.pone.0217245)

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External URL: <https://doi.org/10.1371/journal.pone.0217245>

Version: 1

Publication Date: 2019

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Record Creation Time: 20210329T220526+0000

Record Last Update: 20210329T220925+0000

Data and Source Information

Source: