DEC 03, 2019

ELISA IL-10

PLOS One

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ABSTRACT

To evaluate the effects of photobiomodulation (PBM) on IL-10 expression in individuals with relapsing-remitting multiple sclerosis, a clinical trial was performed. Participants were randomized and then collected 10 mL of peripheral blood. IL-10 was analyzed by BioLegend ELISA Standard MAX™ kit. This is an enzyme linked immunosorbent assay (ELISA). A human IL-10 specific mouse monoclonal antibody is first coated in a 96-well plate. Standards and samples are added to the wells and IL-10 binds to the immobilized capture antibody. Then, a biotinylated mouse monoclonal IL-10 detection monoclonal antibody is added, producing an "antibody-antigen-antibody sandwich". Horseradish peroxidase avidin is then added, followed by TMB Substrate Solution, producing a blue color in proportion to the concentration of IL-10 present in the sample. Finally, the Stop Solution alters the reaction color from blue to yellow, and the microwell absorbance is read at 450 nm with a microplate reader.

ATTACHMENTS

[ELISA.docx](#)

GUIDELINES

The complete list of reagents and plastic can be found in the 'Materials' section.

OPEN ACCESS

DOI:
[dx.doi.org/10.17504/protocols.io.92dh8a6](https://doi.org/10.17504/protocols.io.92dh8a6)

External link:
<https://doi.org/10.1371/journal.pone.0230551>

Protocol Citation: Tamiris Silva 2019. ELISA IL-10. **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.92dh8a6>

MANUSCRIPT CITATION:
Silva T, Fragoso YD, Rodrigues MFSD, Gomes AO, Silva FCd, Andreo L, Viana A, Silva DdFTd, Chavantes MC, Horliana ACRT, Angelis KD, Deana AM, Branco LP, Fernandes KPS, Motta LJ, Mesquita-Ferrari RA, Bussadori SK (2020) Effects of photobiomodulation on interleukin-10 and nitrites in individuals with relapsing-remitting multiple sclerosis – Randomized clinical trial. PLoS ONE 15(4): e0230551. doi: [10.1371/journal.pone.0230551](https://doi.org/10.1371/journal.pone.0230551)

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Protocol status: Working
We use this protocol and it's working

Created: Dec 03, 2019

Last Modified: Dec 03, 2019

PROTOCOL integer ID:
30501

Keywords: IL-10, multiple sclerosis, ELISA

MATERIALS

MATERIALS

- ⊗ PBS pH 7.4 **Contributed by users**
- ⊗ ELISA MAX™ Standard Sets **Contributed by users Catalog #430601**
- ⊗ Microwell plates **PENSABIO Catalog #423501**
- ⊗ Coating Buffer **BioLegend Catalog #421701**
- ⊗ Wash Buffer **BioLegend**
- ⊗ TMB Substrate Solution **BioLegend Catalog #421101**
- ⊗ Stop Solution **BioLegend**
- ⊗ Assay Diluent **BioLegend**