



Biocentaur Limited

11/06/2019

Dear colleague,

We send you the results from the analysis on a patient Ms B suffering from unknown disease. The sample that was sent to us for analysis was a sample of 20ml of whole blood that contained EDTA-Ca as anti-coagulant and packed with an ice pack.

In our laboratory we made the following:

- We isolated the white cells using gradient Ficoll with a membrane that isolates white cells from platelets and red cells. The selection of WBC to each subgroup has been performed through cell separator using antibodies conjugated with magnetic beads.
- For measuring of cytokines has been performed using gene expression profile using inflammatory markers (12K, 12X10³ markers).

IL-1-r	Interleukin 1 rec.	Normal
IL-3-r	Interleukin 3 rec.	Normal
IL-6-r	Interleukin 6 rec.	Normal
IL-7-r	Interleukin 7 rec.	Normal
IL-9-r	Interleukin 9 rec.	Normal
IL-12-r	Interleukin 12 rec.	Normal
IL-13-r	Interleukin 13 rec.	Normal
IL-15-r	Interleukin 15 rec.	Normal
IL-17-r	Interleukin 17 rec.	Normal
IFNa	Interferone a	Normal
IFNb	Interferone b	Normal
TNF-a-r	Tumor Nectosis F. receptor-a	Normal
TNF-b-r	Tumor Nectosis F. receptor-b	Normal
Fas-r	Apoptosis	Normal
Jak/STAT path	Autoimmune response active	Normal
AIRE	Autoimmune Regulator Factor	Normal

Conclusion:

- **There is no indication according the marker profile that there is an activation of autoimmune response that causes the CFS.**

Sincerely,

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