

EXPERIMENTAL RESEARCH: NEW IN-VITRO ASSAY TO EVALUATE "MELTING FAT" FORMULATIONS

BACKGROUND

There is very little scientific studies sustaining the way of use the "melting fat " formulations containing different concentrations of phosphatidylcholine, sodium deoxycholate, carnitine and their combinations.

New in-vitro assay has been developed.

MATERIALS & METHOD

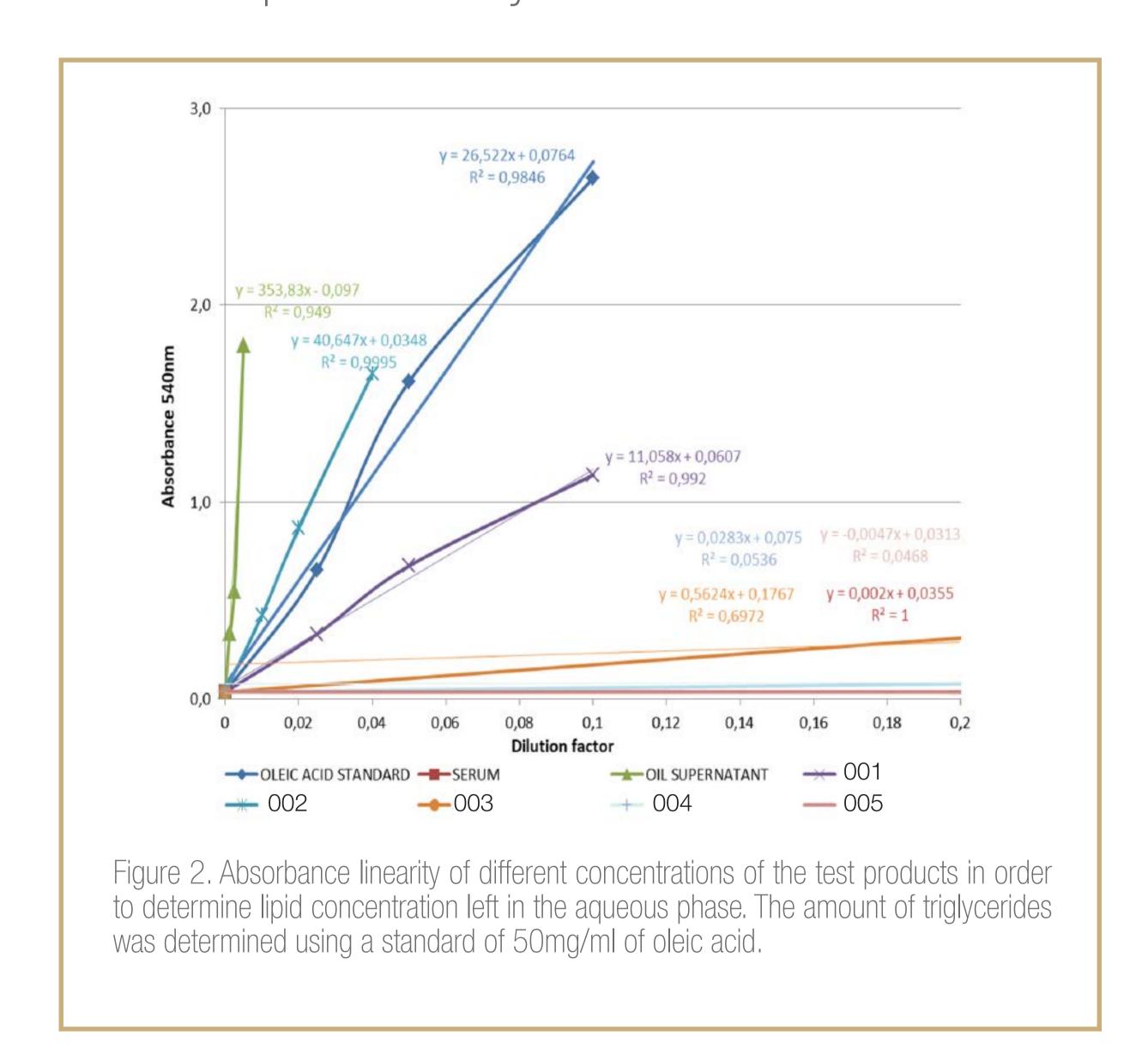
Fresh samples of human fat extracted during liposuction were mixed with investigated solutions and incubated (50% m/v) at 37°C. The effect was evaluated with 3 independent scales. The amount of supernatant, resulting from lipolytic effect on adipocytes, was measured. Colorimetric sulfo-phospho-vanillin method was used for quantitative analysis of total free lipids released after incubation.

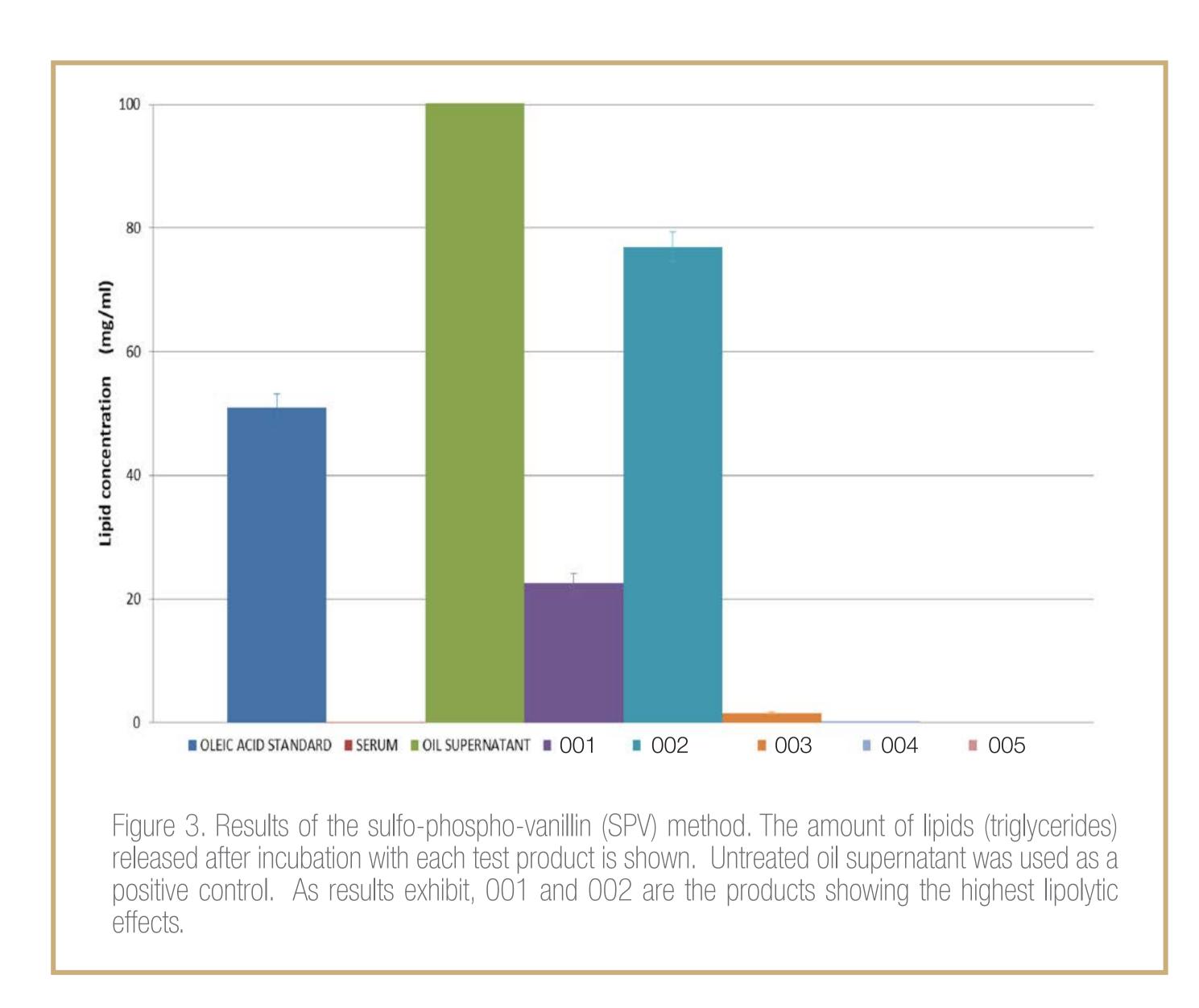
Figure 1
Visual aspect of the adipose tissue after incubation with test products before (A) and after (B) the autoclave cycle.



RESULTS

New method of quantitative evaluation of melting fat formulations or ingredients has been developed and validated within the present study.





CONCLUSION

This novel in-vitro study allows to analyze any actives and ready products pretended to act on the fat tissue and helps to investigate and study the most suitable ingredients and/or their combinations which could be recommended for that purpose. Result of this research will be published.