Potensi Lysate PRF terhadap Diferensiasi hDPSCs (analisis ekspresi DSPP) = The Potential Llysate PRF towards hDPSCs differentiation (DSPP expression analysis)

Silviana Swastiningtyas, author

Abstrak

Latar Belakang: Lysate PRF merupakan modifikasi PRF dengan melakukan freezing-thawing untuk melisiskan platelet dan menghasilkan growth factor yang stabil. Suplemen media kultur in vitro ini mengandung growth factor yang memberi sinyal pada hDPSCs sehingga dapat memasuki siklus diferensiasi sel.
Tujuan: Menganalisis potensi lysate PRF terhadap diferensiasi hDPSCs.
Metode: Evaluasi lysate PRF 1%, 5%, 10%, dan 25% serta FBS 10% (kontrol) terhadap diferensiasi hDPSCs melalui ekspresi DSPP menggunakan ELISA dan gambaran Alizarin Red Staining pada hari ke-7.
Hasil: Tidak terdapat perbedaan bermakna antar kelompok uji maupun kelompok kontrol.
Kesimpulan: Lysate PRF memiliki potensi dalam menginduksi diferensiasi hDPSCs.
......Background: Lysate PRF is a customized PRF that has been processed by freezing-thawing in order to lyse the platelets and create a stable growth factor. This in vitro culture media supplement contains specific growth factors that gives out signal to the hDPSCs in order to enter a differentiation cycle cell.
Purpose: To analyze the potential of lysate PRF towards hDPSCs differentiation.
Methods: Evaluation of lysate PRF 1%, 5%, 10% and 25% as well as FBS 10% (control) against hDPSCs differentiation through DSPP expression by using ELISA and Alizarin Red Staining on the 7th day.
Result: There were no significant results shown between the tests, even with the control group.
Conclusion: Lysate PRF has potential ability in inducting hDPSCs differentiation.