

# Efektivitas Human Platelet Lysate tanpa Penambahan Faktor Pertumbuhan sebagai Pengganti Suplemen Medium Kultur Huvec = Effectiveness of Human Platelet Lysate without Growth Factors as a Supplement Replacement Used in Huvec Culture Medium

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## Abstrak

Latar Belakang: Efektivitas Human Platelet Lysate (HPL) tanpa penambahan faktor pertumbuhan (GF) sebagai suplemen dalam medium HUVEC belum diketahui.

Tujuan: Menilai pengaruh HPL tanpa penambahan GF dalam medium kultur HUVEC terhadap viabilitas sel dan konsentrasi protein total.

Metode: HUVEC dikultur dengan HPL dengan dan tanpa GF dan FBS serta diuji dengan MTT dan Bradford.

Hasil: Viabilitas sel dan konsentrasi protein kelompok HPL tanpa GF lebih tinggi daripada kelompok FBS. Viabilitas sel kelompok HPL 2% tanpa GF lebih rendah daripada kelompok HPL 2% dengan GF. Konsentrasi protein total kelompok HPL 5% tanpa GF lebih tinggi daripada kelompok HPL 2% tanpa GF.

Simpulan: HPL tanpa penambahan GF dapat menggantikan suplemen medium standar pada kultur HUVEC. ....Background: Effectiveness of Human Platelet Lysate (HPL) without additional growth factors (GF) as supplement for HUVEC culture medium was unknown.

Objective: To evaluate the effect of HPL without additional GF on cell viability and total protein of HUVEC.

Method: HUVEC cultured in medium supplemented with HPL with or without GF and FBS were examined by MTT and Bradford assay.

Results: Cell viability and total protein of HUVEC cultured in HPL without GF was higher than in FBS supplemented. Cell viability of HUVEC cultured in HPL 2% without GF was lower than HPL with GF supplemented. Total protein of HUVEC cultured in HPL 5% without GF was higher than HPL without GF supplemented.

Conclusion: HPL without GF can be used as a supplement substitute in HUVEC culture medium.