An in vitro Monkey BBB Model

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Introduction & Methods

In vitro BBB model

Result 1

Target Proteins in Monkey Brain Microvascular Endothelial Cells (MBEC)

Result 2

TEER (Trans-endothelial electrical resistance)

Result 3

Transporter (P-glycoprotein, P-gp)

Result 4

Cross-Talks between BBB-related Cells

Result 5

Co-culture BBB Model

Result 6

BBB Permeability of Drugs

Summary

Monetary brain microvascular endothelial cells (MBEC) had immunopositive expression of von-Willebrand factor, Claudin-5, Occludin, and ZO-1.

BBB Transport of Drugs into Brain

A very good correlation between Papp of drugs was obtained from Rat and Monkey BBB models (BBB Kit).

Conclusion

Monetary BBB Kit™ is a new and useful tool for basic research and BBB permeability assays. In collaboration with rat BBB Kit™, mouse BBB Kit™ would pave the way to elucidate the differences between rodent and primate BBB-related data.