Partition Coefficient-Log D (Octanol/PBS): high throughput

PBS, followed by quantitation of compound remaining in PBS after partitioning to Octanol layer.

Basis : Miniaturized shake-flask method

Log D range : -1.5 to +3.5

Test condition : Addition of Compound to PBS pH7.4 (500µM, 2% DMSO), Octanol addition to achieve 5 vol. ratios of Octanol/PBS (N=3), phase mixing, separation of PBS layer for quantitation.

Detection : At compound lmax by Spectramax M5 (Spectrophotometry)

Other options available : Different buffer, pH, Octanol/PBS ratio Quantitation of both PBS and Octanol phase Detection by HPLC, LC-MS/MS

Results of some Standard drugs