

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

DMSO solution of test compounds added to PBS pH7.4, allowed for distribution between Cyclohexane and PBS, followed by quantitation of compound remaining in PBS after partitioning to Cyclohexane layer.

**Basis** : miniaturized shake-flask method

**Log D range** : -1.5 to +2.0

**Test condition** : Addition of Compound to PBS pH7.4 (100 $\mu$ M, 2% DMSO), Cyclohexane addition to achieve 5 vol. ratios of Cyclohexane /PBS (N=3), phase mixing, separation of PBS layer for quantitation.

**Detection** : At compound  $I_{max}$  by Spectramax M5 (Spectrophotometry)

**Other options available** : Different buffer, pH, cyclohexane/PBS ratio quantitation of both PBS and cyclohexane phase detection by HPLC, LC-MS/MS

### Results of some Standard drugs

