**LIST OF ABBREVIATIONS**

CsA: Cyclosporine A  
PB: Phosphate Buffer (pH 7.4)  
GIT: Gastro intestinal tract  
DSC: Differential Scanning Colorimetry  
DTA: Differential Thermal Analysis  
HPLC: High Performance Liquid Chromatography  
TDW: Triple distilled water  
$T_g$: Phase transition temperature  
FTIR: Fourier transforms infrared  
ng: Nano grams  
$\mu$g: Micrograms  
TFA: Tri fluoro acetic acid  
$\mu$l: Micro liter  
NDDS: Novel drug delivery system  
HLB: Hydrophilic lipophilic Balance  
O/w: Oil in water  
W/o: Water in oil  
DNA: Deoxyribonucleic acid  
RNA: Ribonucleic acid  
MLR: Mixed lymphocyte reaction  
SDC: Sodium deoxycholate  
STC: Sodium taurocholate  
ME: Microemulsion  
MTT: 2, 4-methyl-di-tiazole (4, tetrazolium hydrochloride)  
PPO: 2, 5-diphenyloxazole  
POPOP: 1, 4-di-[2-(5-phenyloxazolyl)]-benzene  
MHC: Major histocompatibility class  
CPM: Counts per minute  
CL: Clearance  
BBB: blood brain barrier  
$C_{max}$: maximum plasma concentration  
CNS: central nervous system  
Da: Dalton  
e.g. example given, for example  
GIT-tract gastrointestinal tract  
hr: hour(s)  
i.e. which means (from lat.: id est.)  
$log\, P$: logarithm of the partition coefficient $P$  
MDR: multi drug resistance  
MRT: mean residence time  
P$_{eff}$: Apparent effective permeability  
P-gp: Plasma membrane-glycoprotein  
$pH$: potentia hydrogenii (lat.)
List of Abbreviations, Equipments & Chemicals

PKa: coefficient for the acidity of a substance
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R2: coefficient of determination respectively
SD: standard deviation
SDS: sodium dodecylsulfate
SOP: Standard Operating Procedure
T1/2: half-life
Tmax: time until Cmax is reached
USP: United States Pharmacopeia
V0: Volume of distribution
Vmax: maximum velocity
WHO: World Health Organization
BL: Optimized bilosomal formulation
NV2: Optimized niosomal formulation
ME: Microemulsion

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