

LIST OF SYMBOLS AND ABBREVIATIONS

%M	Percent <i>In-vitro</i> Mucoadhesion
µg	Microgram
µm	Micrometer
2D	Two Dimension
3D	Three Dimension
ANOVA	Analysis of Variance
AS	Agitation Speed
B	Burst release
BBED	Box-Behnken Experimental Design
BDX	Burst release of Doxycycline
BoP	Bleeding on Probing
BOZ	Burst release of Ornidazole
CaC	Calcium Carbonate concentration
CAGR	Compound Annual Growth Rate
CAL	Clinical Attachment Level
Ca-SA	Calcium-alginate crosslinked
CEJ	Cemento-enamel Junction
CFU	Colony Forming Units
CLC	Crosslinker Concentration
COM	Concentration Of Microspheres
cps	Centipoise
CRP	C Reactive Protein
CS	Chitosan
CS-Ca-SA	Chitosan-calcium-sodium alginate
CSG	Chitosan-glutaraldehyde
CSV	Chitosan-vanillin
CT	Crosslinking Time
DF	Dissimilarity Factor
DMEM	Dulbecco's Modified Eagle's Medium
DSC	Differential Scanning Calorimetry
DT	Drying Technique
DX	Doxycycline hyclate
EDB	Ethidium Bromide
EDXA	Energy-Dispersive X-ray Analysis
EE (%)	Entrapment Efficiency
EEDX	Entrapment Efficiency for Doxycycline
EEOZ	Entrapment Efficiency for Ornidazole
ESRD	End-stage Renal Disease
et al	and others
FD	Freeze-Dried

FDA	Fluorescein Diacetate
FTIR	Fourier-Transform Infrared
g	Gram
GCF	Gingival Crevicular Fluid
GI	Gingival Index
GLU	Glutaraldehyde
GRAS	Generally regarded as safe
G_{temp}	Gelation Temperature
h	Hours
i.e.	That is
IC50	Half-maximal inhibitory concentration
ICH	International Council for Harmonization
LIP	Ligature Induced Periodontitis
LPS	Lippolysaccharide
M (%)	Mucoadhesive microspheres
mg	Milligram
MIC	Minimum Inhibitory Concentration
mL	Millilitre
MLIG	Microspheres Loaded <i>In-Situ</i> Gel
MMPs	Matrix Metalloproteinases
MOP	Method Of Preparation
MTT	3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide
nm	Nanometer
NMR	Nuclear Magnetic resonance
OP	Oil Phase
OVAT	One Variable At a Time
OZ	Ornidazole
P127	Pluronic F127
P68	Pluronic F68
PBFD	Plackett-Burman Factorial Design
PBS	Phosphate Buffer Solution
PI	Plaque Index
PPD	Probing Pocket Depth
PR	Phase Ratio (aqueous : oil)
PS	Particle Size
PY	Process Yield
rpm	Revolutions per minute
SA	Sodium Alginate
SC	Surfactant Concentration (%)
SD	Standard Deviation
SDD	Sub-antimicrobial dose of doxycycline
SEM	Scanning Electron Microscopy

SF	Similarity Factor
SRB	Sulphorhodamine B assay
SRP	Scaling and Root Planning
T_{80%}	Time for 80% drug release
TCL	Type of crosslinker
TDC	Total Drug Content
TDX	Time for 80% cumulative DX release
TNFα	Tumour Necrosis Factor
TOZ	Time for 80% cumulative OZ release
TPP	Triphosphosphate
USFDA	United States Food and Drug Administration
UV	Ultra-Violet
VAN	Vanillin
VC	Vanillin Concentration
viz.	Such as
w/o	water in oil
w/v	weight by volume
w/w	weight by weight
XRD	X-Ray Diffraction

