

LIST OF ABBREVIATIONS

ALLP	Aerodynamically light and large particles	L	Litres
ANOVA	Analysis of variance	LBF	Lactose base formulation
AMK	Amikacin sulfate	LDH	Lactose dehydrogenase
AP	Acid phosphatase	MCA	Medicines Control Agency
BALF	Broncho alveolar lavage fluid	MMAD _t	Theoretical mass median aerodynamic diameter
BP	British Pharmacopoeia	MMAD _e	Experimental mass median aerodynamic diameter
cm	Centimetre	ml	Milliliter
CF	Cystic fibrosis	mM	Millimolar
CFTR	Cystic fibrosis transmembrane conductance regulator	Mw	Molecular weight
CRT	Controlled room temperature	pMDI	pressurized metered dose inhalers
d_a	Aerodynamic diameter	<i>Psa</i>	<i>Pseudomonas aeruginosa</i>
d	Diameter	PBS	Phosphate Buffer Saline 7.4 pH
Da	Dalton	PET	Positron emission tomography
DPI	Dry powder inhalers	r	Regression Coefficient
DSC	Differential scanning calorimetry	r.p.m.	Revolutions per Minute
EMC	Equivalent moisture content	R.T.	Room Temperature
ED	Emitted dose	RFI	Relative fluorescent intensity
FPF	Fine particle fraction	RMC	Relative moisture content
FPD	Fine particle Dose	RSM	Response surface methodology
FDA	Food and drug administration	RH	Relative humidity
FD-ALLP	Freeze dried aerodynamically light and large particles	SD	Standard Deviation
GSD	Geometric Standard Deviation	SEM	Scanning electron microscopy
g	Gravitational Acceleration	SVN	small volume nebulizers
gm	Gram	SD-ALLP	Spray dried aerodynamically light and large particles
h	Hour	SPECT	Single photon emission computed tomography
HSPC	Hydrogenated soya phosphatidylcholine	TB	Tobramycin sulfate
HPLC	High performance liquid chromatography	Tg	Glass transition temperature
HR	Hausner ratio	VMD	Volume mean diameter
Kg	Kilogram	USP	United States Pharmacopoeia
KPa	Kilo Pascal	µm	Micrometer