

TABLE OF CONTENTS

ACKNOWLEDGEMENTS	2
1 INTRODUCTION	5
2 SCOPE	7
3 METHODOLOGY	9
3.1 EQUIPMENT AND EQUIPMENT PREPARATION	9
4 FACILITY DESIGN	11
4.1 TEST ENCLOSURE LAYOUT	11
4.2 TEST ENCLOSURE CONSTRUCTION	11
4.3 TEST ENCLOSURE ENVIRONMENTAL CONDITIONS	12
4.4 REQUIREMENTS FOR TESTING PERSONNEL	13
4.5 CLOTHING	13
5 TEST MATERIAL	15
5.1 ANALYTICAL METHOD FOR LACTOSE	15
5.2 STORAGE OF SURROGATE TEST MATERIAL	16
5.3 HANDLING OF SURROGATE TEST MATERIAL	16
6 MEASUREMENT OF AIRBORNE DUST AND SURFACE CONTAMINATION	17
6.1 INTRODUCTION	17
6.1.1 Conventions for Health Related Sampling	17
6.2 DUST SAMPLING EQUIPMENT	17
6.2.1 Personal Sampling for Inhalable Dust using IOM Sampler	17
6.2.2 Fixed (Static) Sampling for Inhalable Dust	18
6.2.3 Real-Time Aerosol Monitors	18
6.3 SAMPLING EQUIPMENT LOCATION	19
6.4 SWAB SAMPLING (SURFACE MONITORING)	19
6.5 TEST CYCLES/RUNS	19
6.6 RECORDING OF FIELD DATA	20
7 ANALYSIS	21
7.1 ANALYTICAL METHODS	21
8 REPORT	23

TABLE OF CONTENTS

9	EQUIPMENT SPECIFIC TEST PROCEDURES	27
10	GLOSSARY	45
11	REFERENCES	47
12	APPENDICES	49
A.	Sampling and Analytical Method for the Determination of Lactose in Air	50
B.	Continuous Samplers	64
C.	Test Report Proforma	65
D.	Swab Sampling Method	68
E.	Standard Operating Procedure for the Use of IOM Sampling Media and Three-Piece Cassette System	69
F.	Calculation of Airborne Concentration	74
G.	Example Material Certificate of Analysis	75
H.	Sample Field Data Sheet	76
I.	Occupational Hygiene Checklist	77