ISO 21501-4:2007-05 (E)

Determination of particle size distribution - Single particle light interaction methods - Part 4: Light scattering airb orne particle counter for clean spaces

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Terms and definitions 2

3 Requirements 2
3.1 Size calibration 2
3.2 Verification of size setting 2
3.3 Counting efficiency 2
3.4 Size resolution 2
3.5 False count rate 3
3.6 Maximum particle number concentration 3
3.7 Sampling flow rate 3
3.8 Sampling time 3
3.9 Response rate 3
3.10 Calibration interval 3
3.11 Test report 3

4 Test method 4
4.1 Size calibration 4
4.2 Verification of size setting 6
4.3 Counting efficiency 6
4.4 Size resolution 6
4.5 False count rate 7
4.6 Maximum particle number concentration 7
4.7 Sampling flow rate 8
4.8 Sampling time 8
4.9 Response rate 8
4.10 Calibration 8

Annex A (informative) Uncertainty of particle size calibration 9

Annex B (informative) Counting efficiency 11

Annex C (informative) Size resolution 12

Annex D (informative) False count rate 13

Annex E (informative) Response rate 15

Bibliography 16