

ISO 13099-2:2012-06 (E)

Colloidal systems - Methods for zeta-potential determination - Part 2: Optical methods

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms, definitions and symbols	1
3.1	Terms and definitions	1
3.2	Symbols	2
4	Principles	3
5	Microscopic methods	4
6	Electrophoretic light-scattering (ELS) method	5
6.1	General	5
6.2	Cell design	5
6.3	Reference beam optical arrangement	6
6.4	Cross-beam optical arrangement	6
6.5	Signal processing	7
6.6	Determination of electrophoretic mobility	9
7	Calculation of zeta-potential	9
8	Operational procedures	10
8.1	Requirements	10
8.2	Verification	12
8.3	Sources of measurement error	13
8.4	Test report	15
	Annex A (informative) Electroosmosis within capillary cells	16
	Bibliography	19