

ISO 27971:2008-05 (E)

Cereals and cereal products - Common wheat (*Triticum aestivum* L.) - Determination of alveograph properties of dough at constant hydration from commercial or test flours and test milling methodology

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Principle	1
4	Reagents	2
5	Apparatus	2
6	Sampling	3
7	Preparation of the wheat for test milling	3
7.1	Cleaning the laboratory sample	3
7.2	Test portion	7
7.3	Wheat moisture content determination	7
7.4	Wheat conditioning	7
8	Laboratory milling	10
8.1	General	10
8.2	Milling procedure	10
8.3	Expression of milling results	11
9	Preparation and alveograph test	12
9.1	Preliminary checks	12
9.2	Preliminary operations	12
9.3	Kneading	14
9.4	Preparation of dough test pieces	16
9.5	Alveograph test	18
9.6	Expression of the results of the alveograph test	20
10	Precision	22
10.1	Interlaboratory tests	22
10.2	Repeatability limits	22
10.3	Reproducibility limits	23
10.4	Uncertainty	24
11	Test report	25
Annex A (informative) Characteristics of the Chopin-Dubois CD1 mill		26
Annex B (normative) Quantity of water to be added to wheat for conditioning		28
Annex C (informative) Sample milling sheet		30
Annex D (informative) Conversion table for L to G		32

Annex E (informative) Interlaboratory data for commercial flour	34
Annex F (informative) Interlaboratory data for laboratory milled flour	37
Annex G (informative) Routine maintenance instructions for the alveograph	48
Annex H (informative) Assessment of proteolytic activity assessment in wheat or flour (T. aestivum L.)	50
Bibliography	52