



Application Memo Water Content in Dairy Products

Industry Food and beverage

Instrument Karl Fischer moisture titrator
Measurement method Volumetric titration (Direct method)
Standards JIS K0113, ASTM E203, ISO 760

1. Overview

Moisture titration with Karl Fischer reagent is the most reliable moisture measurement method in the world. The procedure is adopted in many official standards as test method specified in ISO, ASTM, DIN, BS and JIS.

Here in this application, we measure water content in dairy products by direct method of KF titration according to JIS K 0113. These samples which are hard to dissolve may be dispersed in the solvent, but measurement can be performed without problem.

2. Apparatus

Main unit Karl Fischer moisture titration volumetric system

Heat extractor for sugar samples

Electrode Twin platinum electrode

3. Reagents

Titrant KEMAQUA titrant TR-5

Solvent KEMAQUA solvent FAT for oil and fats

4. Example

—Measurement results—	
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Sample name	Sample size	Water content		
	(g)	(mg)	(%)	
Butter	0.1194	17.6005	14.74	
Powder milk	0.5080	17.4033	3.43	
Powder cheese	0.1402	19.2560	13.73	

Please feel free to contact us for any further information.

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