

Application Memo

Moisture of Medicines (2)

Industry	Pharmaceutical
Instrument	Karl Fischer moisture titrator
Measurement method	Volumetric titration (Direct Method)
Standards	JIS K 0113, ASTM E 203, ISO760

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 medicines by direct method of KF titration according to JIS K 0113. The samples dissolves in the solvent with ease.

2. Apparatus

Main unit	Karl Fischer moisture titration volumetric system
Electrode	Twin platinum electrode

3. Reagents

Titrant	KEMAQUA titrant TR-3 and TR-5
Solvent	KEMAQUA solvent MET for general

4. Example

— Measurement results —

Sample name	Water content		Sample name	Water content	
	mg	%		mg	%
Chlorobutanol	50.97	4.85	Sodium lauryl sulfate	7.46	1.45
Propylene glycol	3.75	0.19	Cyanocobalamin	7.50	3.46

Please feel free to contact us for any further information.

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