

Water content analysis for Drugs and Medicines

Sample :Dextromethorphan Hydrobromide

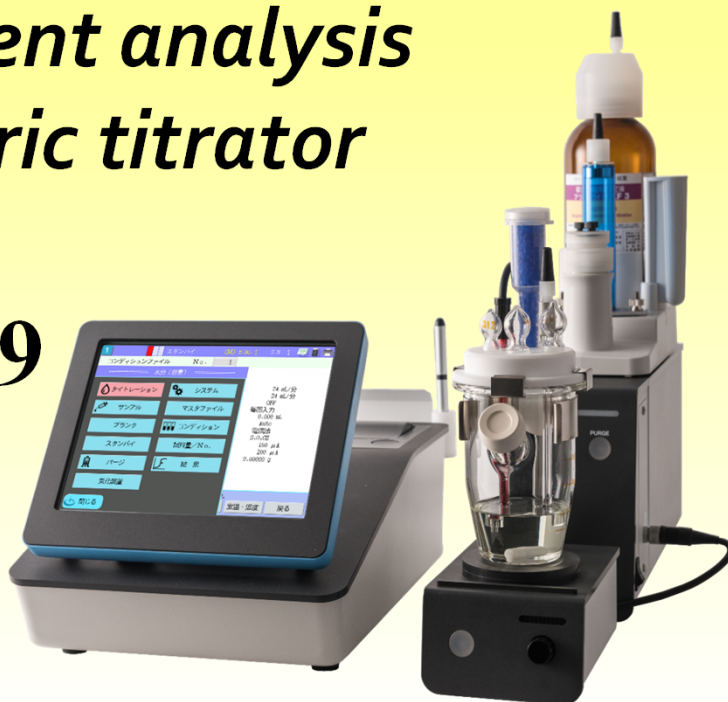
Monohydrate (i.e. Cough syrup)

 **HIRANUMA**  
From Manual to Auto, from Auto to Beyond

# Easy water content analysis with KF volumetric titrator

Karl Fischer Titrator

## MOIVO-A19



### Real-time titration curve

Easy-to-track measurement on the large display

### Automatic Measurement

Brings productive practice to your lab

Simple  
for all  
users

### Offers great expandability

Easily expandable to accommodate changing analytical requirements

Sample	Meas. No.	Meas. Time	Sample size (g)	Titrant volume (mL)	KF factor (mg/mL)	Statistic result	
KF titrant	1	0:05:25	0	14.44	2.0265	Avg.	2.0279 mg/mL
10 mL	2	0:08:03	0	14.44	2.0265	SD	0.0024 mg/mL
	3	0:10:18	0	14.41	2.0307	RSD	0.12 %

【 Results of factor measurement of water-in-methanol solution 】

Sample	Meas. No.	Meas. Time	Sample size (g)	Titrant volume (mL)	Water (mg)	Water content (%)	Statistic result	
Blank test	1	0:00:40	-	0.01	-	-	Avg.	0.01 mL
	2	0:00:36	-	0.01	-	-		
Dextromethorphan	1	0:07:02	0.2000	9.62	9.725	4.8625	Avg.	4.9106 %
Hydrobromide	2	0:09:12	0.1968	9.64	9.685	4.9212	SD	0.0438 %
Monohydrate	3	0:12:57	0.1990	9.56	9.847	4.9482	RSD	0.89 %

【 Measurement results for water content in Dextromethorphan Hydrobromide Monohydrate 】

4 parallel titration is possible!

Adding an additional titration station and buret is as simple as plug and play!



## HIRANUMA lineup meets your needs and budgets!

Economy models



AQ-300

Solid evaporators



EV-2000



EV-2010

Touch screen controller



MOICO-A19

Oil evaporators



LE-320



EV-2000L