



ELECTRONIC BALANCES AND SCALES

SUBSTANCE – BARLEY GROATS

Below information on determination of humidity content for above specified substance is a supplement of traditional drying method. RADWAG technical support department hopes, that this datasheet will be helpful for the tests performed with application of RADWAG moisture analyzers.

DRYING PARAMETERS – TRADITIONAL METHOD

Substance description:	Pearl barley goats, thick, average, small			
Reference /traditional/ method parameters:	105 °C / 3 hours.			
			Humidity	Standard deviation
	1	Pearl barley thick	11,02 %	S=0,0003 %
Humidity determined with traditional method:	2	Pearl barley average	11,88 %	S=0,0019 %
	3	Pearl barley small	12,48 %	S=0,002 %

DRYING PARAMETERS - MOISTURE ANALZYER SERIES MAC 50

Equipment necessary for drying process	Disposable aluminum pans
Sample preparation	Spread thin layer on all pan surface
Sample size	barley groats: thick 7-8 g, average 5-6 g. small 4-5 g
Drying profile	Standard
Drying temperature	125 °C
Auto switch-off criterion	Automatic 2 [Auto 1 - 1mg/10sek; Auto 2 - 1mg/25sek; Auto 3 - 1mg/60sek; Auto 4 - 1mg/90sek; Auto 5 - 1mg/120sek]
Average measurement time	~ 25-30 minutes

Determined humidity content /average value/	Thick barley groats	11,022 %	S=0,012 %
	Average barley groats	11,587 %	S=0,09 %
	Small barley gorats	12,818 %	S=0,23 %

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