

DATA BULLETIN

The sulfur content of dried distillers grains measured with the rapid CS cube

Dried distillers grains (DDG) are a byproduct of the distillation process during spirit and bio-fuel production. Distillers grains are an excellent digestible protein and energy source for livestock, especially ruminants. For quality control, the sulfur content of DDG is routinely determined.

The samples are weighed into tin boats with an additive of WO_3 . The calibration and the daily factor are determined using sulfanilamide. Each sample was analyzed four times. The average S content of six different dried distillers grains samples including their absolute standard deviations are presented below.

SAMPLE	S [%]	SD [%]
DDG-1	1.064	0.028
DDG-2	1.051	0.037
DDG-3	0.989	0.049
DDG-4	1.057	0.040
DDG-5	1.009	0.036
DDG-6	0.972	0.072

Using the rapid CS cube, the sulfur content of dried distillers grains could be analyzed with a very good precision without any limitations. The fast analysis and easy sample preparation enables the fully automated analyses of up to 60 samples within 5 hours with the rapid S cube.

INSTRUMENT:

rapid CS cube

DETAILS:

carrier gas: oxygen

sample: 80-100 mg grains



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