DATA BULLETIN

Nitrogen analyses in sludge with the rapid N exceed

For the agricultural use of sewage sludge as fertilizer its nitrogen content is very important. The rapid N exceed is very suitable for the determination of the nitrogen content in sludge while it determines the nitrogen content for relatively large sample quantities reliably and fast.

Several sludge samples from a wastewater treatment plant were analyzed with the rapid N exceed. The sludge samples were dried, weighed into tin foil cups and analyzed with a standard method on the rapid N exceed.

All samples were analyzed four times. The results of the nitrogen measurements are presented below.

	N [%]		N [%]		N [%]
sludge	2.593 2.587 2.574 2.574	sludge	1.316 1.347 1.337 1.404	sludge	2.315 2.209 2.194 2.284
mean std	2.58 0.010		1.35 0.038		2.25 0.058

The nitrogen content of all sludge samples could be determined with a very good precision. The absolute standard deviation is well below 0.1%.

The rapid N exceed utilizes the innovative EAS REGAINER© technology, which allows the analysis of several thousands of samples with minimum maintenance. This results in a reduction of the costs per analysis with more than a factor two compared to similar instruments on the market.