

# Faster evaluation of Biochemical Methane Potential (BMP)



Improve waste stock management for higher methane yield with the NIRS DS2500 Analyzer

## Efficient feedstock digestion for higher methane yield

02

**A rapid Biochemical Methane Potential (BMP) analysis by the NIRS DS2500 Analyzer helps to improve waste management and increase methane production.**

BMP is an important parameter in biogas production as it helps producers to evaluate the efficiency of the anaerobic digestion process for specific substrates. However, conventional biochemical approaches to evaluate BMP take up between 30 and 50 days making them unsuitable for industrial plant management and process optimization.

### **NIRS DS2500 for fast BMP results**

Near-infrared spectroscopy (NIRS) is a much faster, highly suitable method for BMP analysis. A rapid BMP test using the NIRS DS2500 Analyzer by Metrohm provides accurate results in a matter of seconds. This helps biogas producers to improve waste stock management and increase the methane yield of the digestion process.

### **NIRS for BMP is ...**

- **Simple** No chemicals and no reagents needed, results at a push of a button
- **Fast** A sample measurement takes only a few seconds
- **Efficient** NIRS provides results for many biochemical parameters with a single measurement

#### **Straightforward sampling of substrates**



Straightforward sample preparation (drying and grinding of the substrates) provides more accurate results.

#### **Measurement at a push of a button**



Anyone can use the NIRS DS2500 Analyzer. Due to its robust design, it can be used directly at the digestion plant or in a laboratory.

## Dedicated calibration model and quality standards

The NIRS DS2500 package for BMP uses the Flash BMP® calibration model by Ondalys. More than 500 samples of different kinds of substrates are included and accurate reference values are guaranteed by certified laboratories making the Flash BMP® calibration model the most robust and reliable solution.

**Range:** [20–700] ml CH<sub>4</sub>.g<sup>-1</sup> VS

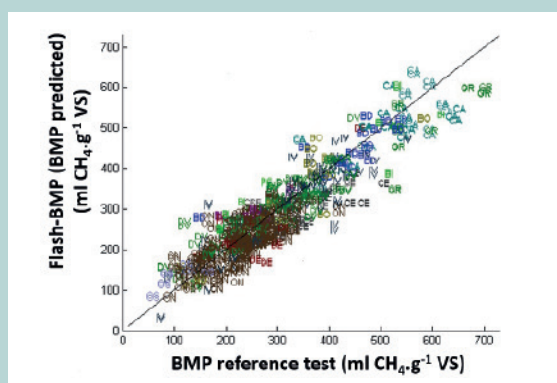
**Substrates include:**

- Green waste
- Agro-industrial
- Energy crops
- Manure
- Sludge

03



Effortless evaluation  
of spectra



Package comes with the ready-to-use Flash BMP® calibration model, you can speed up your evaluation with effortless calibration development.

BMP results in  
less than a minute

Sample number	Operating Procedure	BMP
Waste-13	BMP Test	480

The NIRS DS2500 Analyzer is controlled by Vision Air software. Vision Air shows the results at single click.

## Ordering information

### **2.922.0010 NIRS DS2500 Analyzer**

#### **Comprised of:**

1.922.0010	NIRS DS2500 Analyzer
6.7400.030	NIRS DS2500
6.7430.040	accessory kit Mini sample cup holder
8.922.8001EN	NIRS DS2500 manual

#### **Requires software**

6.6072.111	Vision Air
------------	------------

#### **Optional software**

6.6069.102	Vision
6.6072.112	Vision Air network non Pharma
6.6072.113	Vision Air server non Pharma

#### **Requires certified standards**

6.7450.000	NIRS reflection standard, set of 2
------------	------------------------------------

#### **Accessories**

6.7402.050	NIRS DS2500 large sample cup
------------	------------------------------

#### **A ready-to-use calibration model**

Flash BMP® provided by Ondalys

[www.metrohm.com](http://www.metrohm.com)

