



## Fast analysis of the methane potential

Valuing the organic waste into new resources is a societal and economic challenge. Quickly evaluating the waste energetic's potential is essential for the circular economy's actors for the catchment and the production of matter and energies from these deposits. Scanae's lab offers fast analytic services for waste's characterization and the determination of their valorization potential.

### Descriptive of the technology :

FluoMethane® is a fast analysis applied to determine the organic waste's methane potential. This novative analysis allows the **waste screening**, with a 96 wells capacity, under a microplate version.

FluoMethane® is adressed to the circular economy's actors, to ensure the matter quality and quickly evaluate the valorization potential of the organic waste.



### Assets :

**Reliable** : The method has been validated in comparison to the BMP reference analysis (NF ISO 1 1734).

**Fast** : Your analysis report is delivered under **15 working days**, in order to accelerate your decision processes.

**Flexible** : We adapt the analysis to your digester and to your project (example : sludge analysis)

**Services** : We assist you to interpret the analysis results. We operate from the lab until advice directly on site.

### FluoMethane®, for :

#### 1 Waste management officers :

Accelerate the waste prospection and purchase  
Give an economical value to waste

#### 3 Labs and engineering offices :

Accelerate the feasibility studies  
Complete your expertise  
Propose an operational analytic support  
Expand your services offer

#### 2 Biogas plant managers:

Characterize the input  
Improve the site performance  
Diagnose the toxicities  
Optimize your digester



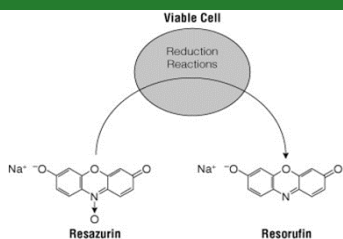
## Analysis steps :



## Methods :



The methane potential of waste is determined through the fluorescence measure, associated to the bacteria activity degrading samples during a 96 hr incubation.



**Scanae's technology is based on the use of a bioreactive sensitive to the catabolic activity of bacteria :**

FluoMethane® analysis is a fast microplate analysis of methane potential.

In each well, a bioreactive derived from resazurine is reduced in a fluorescent compound during the bacterial cells activity. The methane potential is then determined regarding the fluorescence emitted for each analyzed sample.

### We support you in your international projects :



Scanae is certified by the Ministry of Agriculture for the importation and the analysis of animal co-products samples from foreign countries.

## Validated by our clients :



FluoMethane® validation versus AMPTS

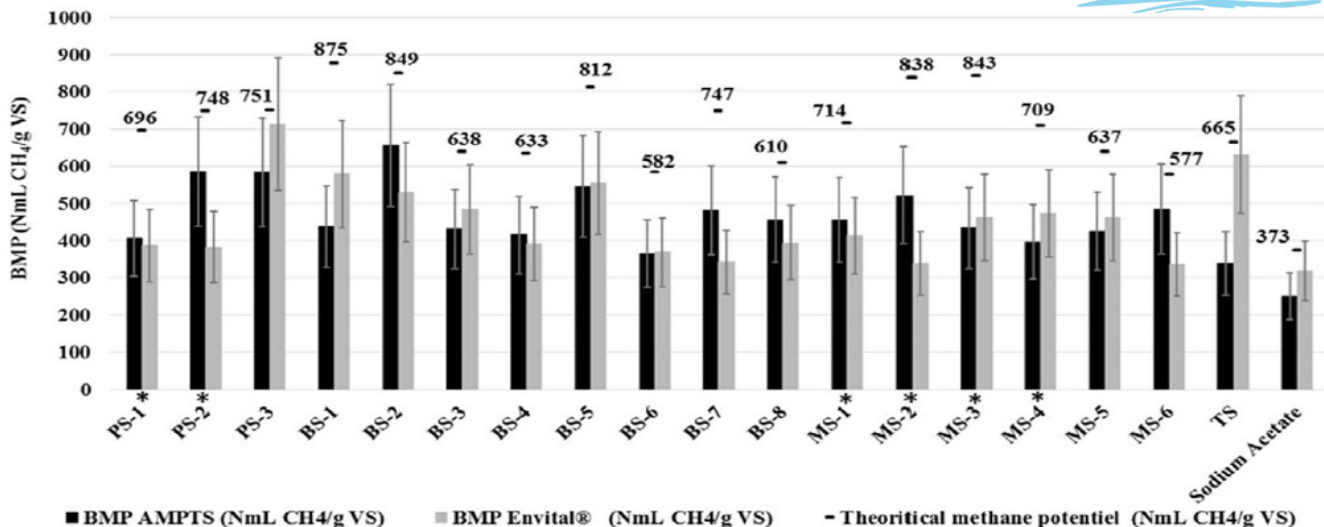


Fig. 3. Comparison between AMPTS and Envital® on BMP parameter. PS (Primary Sludge); BS-1 to BS-4 (Biological Sludge - Tank); BS-5 to BS-8 (Biological Sludge-Biofilter); MS (Mixed Sludge); TS (Tertiary Sludge). \*Same inoculum for AMPTS and Envital®. Bellaton et al, Bioresource Technology, 206, 279 - 284



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