

## TRAINING MATERIAL

Title:

Urine from pig manure by "VeDoWS" adapted stable construction system (ID:322)

Training:

### **What is the product?**

In an VeDoWS adapted stable construction there is not only less odour, ammonia, GHG emission in the stable. Due to the primary separation of pig manure in the stable the farmer produces a good liquid fertilizer: pig urine.

### **Who is the vendor of the product?**

Farmers with a VeDowS stable build by Vermeulen Construct. Vermeulen Construct (Belgium) is specialised for barn equipment for pigs and poultry. They fulfill complete building of stables in terms of electricity, ventilation, air washing, feeding systems or manure separation. Vermeulen Construct is developer and distributor of the unique VEDOWS stable system for manure separation.

### **Which other product are provided by the vendor?**

Solid fraction of pig manure.

### **Which are the advantages of the product and the problems addressed?**

The VeDoWS pig urine contains most of the nitrogen and potassium, while the phosphorus is mainly found in the solid manure. The N/P ratio is high. Therefore the pig urine is suitable as a good fertilizer without being phosphorus limited. The nutrients are fast released. You can see the product in Figure 1.

### **Which is the nutrient content of the product?**

Total Nitrogen content (%): 0.328 – 0.370 ; NKjehl content (%): 0.332 ;

Phosphorus content (%): 0.001 – 0.019 ;

C/N: 1.3 - 1.9 ;

Other macro and micro elements (%): K: 0.421 / Na: 0.215 / Ca: 0.042 / Mg: 0.042

Dry matter content: 0.6% – 2.7%

pH: 8.70 – 9.26

EC (mS/cm): 24.2

### **Which equipment and methods can be used to apply the product?**

Due to the liquid composition field application and dose is easy to set (similar to slurry application). Regular machinery as slurry tank can be used to apply, by preference before sowing/planting.

**How to use the product?**

No special requirements about storage. As the nitrogen content is limited, not more than 50 tonnes/ha can be applied. Dose depends on crop demand. It can be used in organic and conventional farming, open fields and greenhouses, in all crops.

**Which are the authority permits and in which EU countries?**

Approved in MS Belgium: Flanders

List EU-FPR Product Function Category or Component Material Category.

**How much does it cost?**

In Belgium farmers are payed to come and collect pig urine on a pig farm with a VeDoWS stable construction.



Figure 1. Product: urine from pig manure by "VeDoWS" adapted stable construction system

For more information: [https://nutriman.net/farmer-platform/product/id\\_322](https://nutriman.net/farmer-platform/product/id_322)