

Ny Vraa



#Production and development of willow



#CO2 storage



#CO2 storage #recycling of nutrients



#compost



#compost



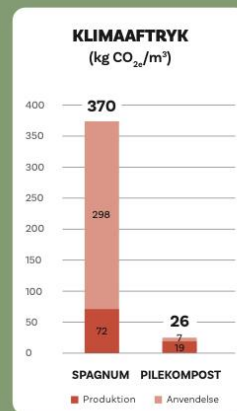
#peat free



93% LAVERE KLIMAAFTRYK

Udvinningen af spagnum frigiver enorme mængder CO₂ og gør uoprettelig skade på landets unikke moser. Verdens mosearealer, hvor spagnum udvindes, udgør 3 % af verdens areal, men binder næsten den dobbelte mængde kulstof som alle Verdens skove tilsammen.

Der er i forbindelse med problematikken omkring spagnum lavet livscyklusvurderinger på forskellige alternative vækstsustreter – herunder pilekompost. Ved at bruge pilekompost i stedet for spagnum reduceres klimaafttryk med 93%.



Dokumentation og udvikling:

- Biosubstrate 1.0 (2019 - 2021)
- Biosubstrate 2.0 (2022 - 2025)
- Biosubstrate 3.0 ?

TEKNOLOGISK
INSTITUT

Queen®



PINDSTRUP



ØKOLOGI
HAVEN®

- Aarhus Universitet, Institut for Agroøkologi
- Aarhus Universitet, Institut for Bio- og Kemiteknologi
- Aarhus Universitet, Institut for Fødevarer

NY VRAA

#compost #development



#horticulture



#dyrk



PLANTESÆKKE TIL KAPILLÆRKASSER

2 X 25 LITER

Plantesækken er på 25 liter og er designet til, at der kan placeres to sække ved siden af hinanden på en kapillærkasse.

Herved kan forbrugeren nøjes med at skifte én af plantesækkene, når man vil skifte planter og derved er det nemt, at dyrke flere afgrøder på én sæson.



POTTEMULD

8 LITER
18 LITER

Sækkene er produceret til anvendelse i pletter og krukker og er nemme for forbrugeren at håndtere.



ØKOLOGISK

Vores pilekompost består af økologisk plantemateriale, som kommer udelukkende fra certificerede økologiske landbrug.

Pilekomposten er helt fri for uønsket kemikalier og tilsætningsstoffer.



PLANTEBASERET OG UKRUDTSFRI

Pilekomposten består af 100% plantemateriale.

Under komposteringen opnår en naturlig temperatur på 65 grader, som slår uønskede ukrudtsfrø og spirer ihjel.



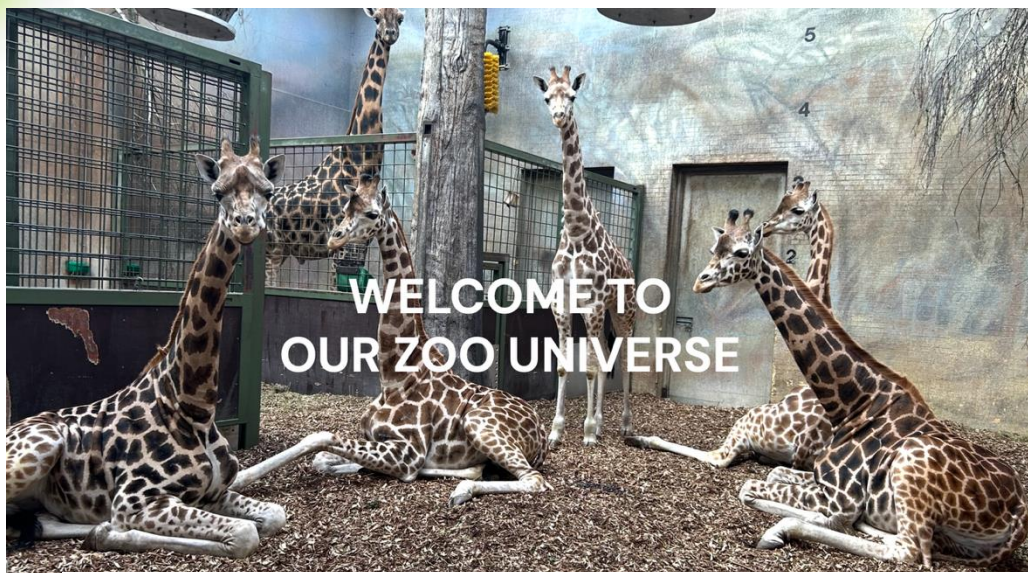
DANSK

Pilekomposten produceres på gården Ny Vraas beliggende i Nordjylland. Her har familien Bach drevet landbrug gennem tre generationer. I 1989 blev de første arealer tilplantet med pil og i 2012 blev produktionen ombygget til økologi.



 **NY VRAA**

#bedding #Biobed



NATURAL BEDDING WITH ACTIVE MICROORGANISMS

BIOBED is an excellent bedding solution for animals in tropical environments, as it closely mimics the natural forest floor. Its moisture-retaining properties create a comfortable habitat, ideal for reptiles, amphibians and mammals like tapirs, anteaters, and armadillos.

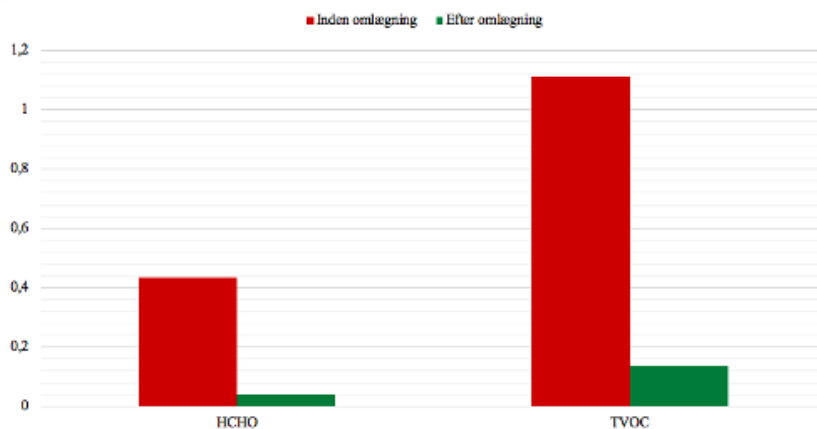
The active microorganisms in BIOBED help break down organic material, reducing odors and maintaining a clean environment. Additionally, its low dust levels improve air quality, benefiting both animals and caretakers while enhancing the overall enclosure experience.



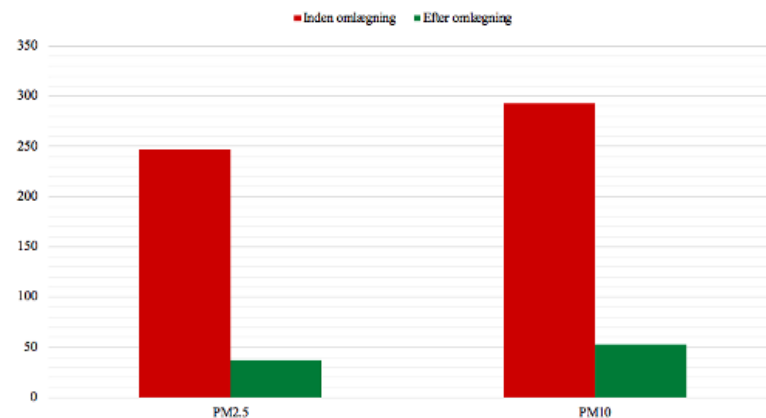
GROWING A MORE SUSTAINABLE FUTURE
Bioactive bedding made from Danish willow



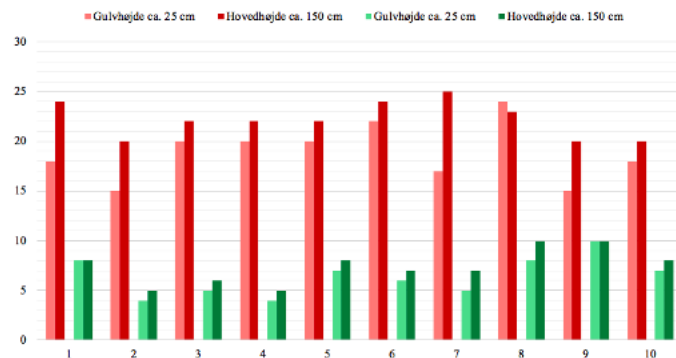
#environment for animals & keepers



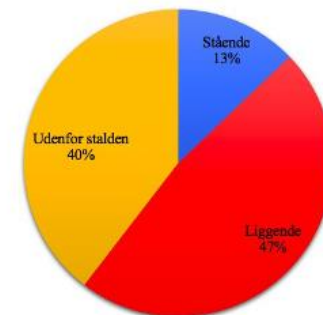
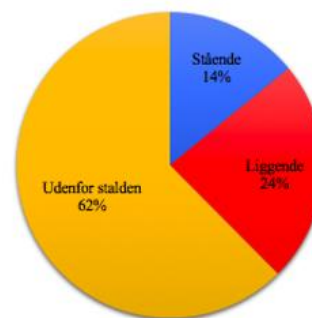
Figur 5. Gennemsnitlig ændring af TVOC og HCHO målt i mg/m^3 .



Figur 6. Gennemsnitlig ændring af PM2.5 og PM10 målt i $\mu\text{g}/\text{m}^3$.



Figur 7. Ammoniakmålinger 10 gange før (rød) og efter (grøn) omlægningen målt i ppm.



#environment for animals & keepers

TVOC: *Total Volatile Organic Compounds*

This refers to the total quantity of chemical substances and gases that have evaporated into the air

HCHO is the chemical formula for formaldehyde

PM_{2,5} are microscopic, fine airborne dust particles with a diameter of less than 2.5 micrometres. They are primarily emitted from combustion sources such as wood-burning stoves, traffic and industry. Due to their small size, the particles can penetrate deep into the lungs and enter the bloodstream, posing a serious health risk. Size less than 2.5 µm – approximately 3 per cent of the width of a human hair.

PM₁₀ is particulate matter with a diameter of 10 micrometres or less. The particles can be inhaled and penetrate the upper respiratory tract; they originate from sources such as road traffic, wood burning, industry and natural sources such as sea salt.

Development of feed and feed supplements



Development of feed and feed supplements

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journal homepage: www.elsevier.com/locate/agee



Feeding salicylates containing willow leaves to cattle modulates urea metabolism and mitigates urine-derived ammonia and nitrous oxide emissions from soil



Salixin A/S



Organic Willow extracts from Salix Purpurea

Functional **fermented** organic ingredients for cosmetics and food supplements.

History of Aspirin- Willow Bark Extract

Before 1890 most painkiller medicine was made of willow bark – the active in the bark (Salicyl Acid) was synthesized by German company Bayer in 1890 as Acetylsalicyl Acid – the active painkiller component in Aspirin.



Certifications

International certifications hold the key to succes on the markets worldwide

Salixin is certified by the following organisations:



ECOCERT/COSMOS

The biggest and widely most wellknown organic certification in the World



The Vegan Society

Also one of the Worlds biggest vegan certifications. No animal test - all natural and vegan.



Natrue

Salixin raw materials certified 2023

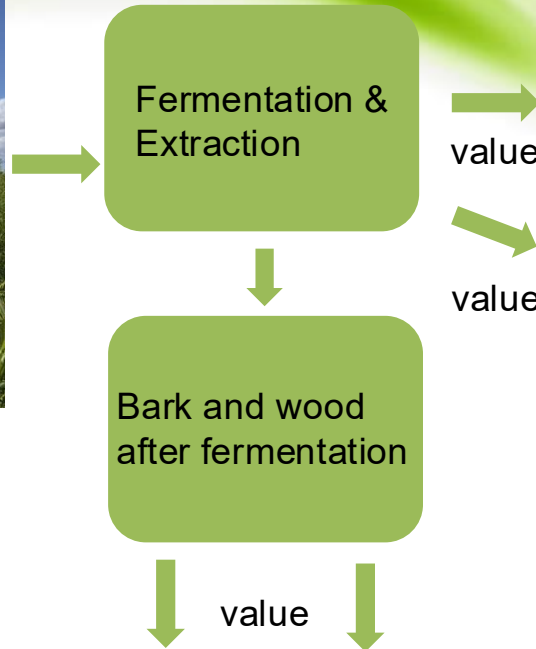


Organic Production

The EU standard for organic production



Willow to value process



- 800NP
- 850NP
- 870NP
- 890NP

Active for personal care,
animal feed & biostimulant



- Powder 48
- Active for personal care
nutrition/food supplement

↓ value



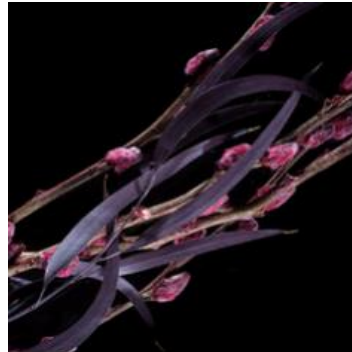
Organic Charcoal for
Personal care & Nutrition

Composting process

Compost for horticulture

Products on the market...

Cécred by Beyoncé



FERMENTED PURPLE WILLOW BARK

This bioactive contains beta hydroxy acid (BHA), a natural salicylic acid. Its properties gently break down product buildup and nurture the scalp.

LVMH "Ole Henriksen"



#why willow?



 NY VRAA

