

What are feedable insect proteins?



Black Soldier fly

MUTATEC
Bioconversion by insects

Sustainable production¹



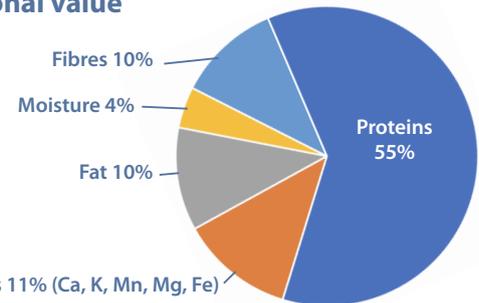
Automated indoor farms



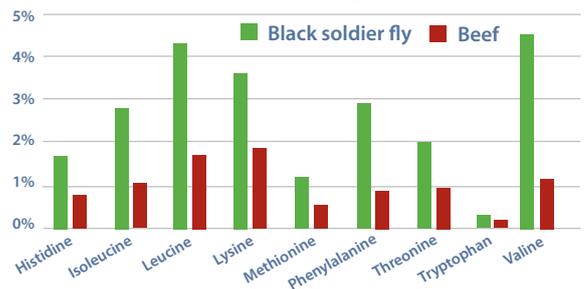
Use plant-based by-products from agriculture (e.g. vegetable peel to feed the insects)

- *for 1 kg single cell proteins
-  **Reduced use of land***: 0,00074m² (0,0008% compared to beef ²)
 -  **Reduced use of fresh water***: 3,46m³ (38% compared to beef ²)
 -  **Reduced greenhouse gas emissions***: 10,2kgCO₂eq (9% compared to beef ²)

Nutritional value



Content of essential amino acids compared to beef ² (g/100g)



Regulation Approved for use in pet food, chicken feed, pork feed and aquafeed

Applications tested in the NextGenProteins project



Feed for turkey



Feed for broiler chicken

9-18% in poultry feed



Feed for Salmon



Feed for Seabream

5-15% in fish feed

¹ NextGenProteins (2022) Deliverable No 6.3. Report on circular economy potential of alternative proteins available on <https://zenodo.org/communities/nextgenproteins/?page=1&size=20>
² Disclaimers: Beef has been used as a comparison because of high protein content and high consumption around the world. NextGenProteins does not aim to discredit any protein source, but rather to inform about new sources.

