

EIP-AGRI practice abstract

Short title:

Urine from calves manure by "Geamix" separation at source

Summary:

The urine is produced by separation at source of solid manure and urine. The calves stay on a steel slatted coated floor. The manure falls through the slatted floor on a perforated, urine permeable manure belt that lies under the grid floor. The urine falls completely through the perforated manure belt onto a coated sub-floor that is sloped and contains a urine trough at the lowest point. This pure urine then flows away to a closed collection outside the barn. It is a liquid organic fertilizer. Dry matter: 27,4 g/kg; Organic matter: 7,4 g/kg; N: 4,3 g/kg; P2O5: 0,1 g/kg; K2O: 9,6 g/kg

The urine that is produced meets the RENURE criteria ($C/N < 3$) that are currently proposed by the Joint Research Centre to the European Commission (from the Safemanure project). If the EC accepts the proposal, the urine can be disposed of regionally free of charge or for a fee as a substitute for chemical fertilizers to dairy farmers, arable farmers and / or horticulturalists.

The product can be applied before sowing or planting of the crops with the same machines which are now being used for spreading slurry or liquid manure. During the cultivation of the crops the product can be applied with precision fertilising equipment. The use of low emission application techniques is compulsory to prevent ammonia volatilization. The fertilizer can be locally used at the cost of approximately €0/ha.

For more information: https://nutriman.net/farmer-platform/product/id_591