



Anaerobic granules to booster UASB reactors

Problem

In anaerobic wastewater treatment, organic material is converted into biogas by the successive action of four major microbial consortia. Disturbance of the process equilibrium (eg overloading or intoxication of the biomass) greatly decreases the reactor performance. Another typical problem in anaerobic UASB reactors is the lack of granular sludge formation, depending on a broad range of parameters which cannot always be strictly controlled.

Solution

Avecom provides an anaerobic mesophilic granular booster culture of excellent quality to accelerate the (re)start of anaerobic mesophilic wastewater treatment plants. The anaerobic booster has a high specific methanogenic activity and consists of dense granules which are easily retained in the reactor system.

Advantages

- ◆ High specific methanogenic activity
- ◆ Readily available to our customers
- ◆ Available in 20-30 m³ freights
- ◆ Quality control and assurance of the anaerobic booster culture
- ◆ Consultancy by Avecom specialists on the (cross) inoculation strategy available on request
- ◆ Fast start up of anaerobic mesophilic reactors

Application

- ◆ Start up of new mesophilic anaerobic reactors
- ◆ Swift restart after activity decrease
- ◆ Cross inoculation with complementary bacterial species to improve performance
- ◆ Improvement of granular sludge content
- ◆ Counteracting sludge wash out

Avecom
Added Value Environmental Composites

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