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From Wastewater
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granulation
technology for
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The sustainable
anaerobic nitrogen
removal and microbial
granulation were
investigated by using a
laboratory anaerobic

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granular sludge bed reactor, treating synthetic (inorganic and organic) wastewater and piggery waste.

Nutrient removal and microbial granulation in an anaerobic ...

Aerobic granular sludge (AGS) or granular activated sludge is categorized as a 'self-immobilized microbial consortium'.

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Granular
Technology For
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First reported in 1991,
this technology has
improved significantly
to focus on current
biological nutrient
reduction (BNR)
limitations.

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Aerobic Granular Sludge: Formation, Microbial Communities ...

This article reviews the
applications of aerobic
granular sludge in
treating excess
nutrient, heavy metals,

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and emerging micropollutants, and discusses the integration of aerobic granular bioflocs with membrane technology, microbial fuel cells, and microalgae to enhance the efficiency of wastewater treatment.

2. Application of aerobic granular sludge

Various applications of aerobic granular sludge: A review ...

Good phosphorus

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Microbial
removal and
nitrification occurred
throughout the SBR
operation but only
when granules were
generated were
denitrification and full
nutrient removal
complete.
Fluorescence in situ
hybridization and
oxygen microsensors
were used to study the
granules at a
microscale.

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distribution of Accumulibacter spp. and ...

The diffusibility and uptake rate of organic carbon directly influences the microbial competition for substrate, and in turn the granulation (Fig. 1). A slow

anaerobic conversion of non-diffusible X B combined with a decreased substrate availability within the granule can result in

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carbon leakage (i.e., carbon available in aerobic conditions).

Organic substrate diffusibility governs microbial ...

The accumulation and aggregation of microbial during granulation process enhanced the formation of granules. The presence of EPS has a significant influence on the microbial aggregates

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Microbial
such as...

**(PDF) Identification
and role of microbial
species ...**

Nutrients are necessary for microbial growth and play a vital role in the proper cultivation of microorganisms in the laboratory and for proper growth in their natural environments. The types of nutrients that are required include those that

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supply energy, carbon
and additional
necessary materials.
The nutrients used to
propagate growth are

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**Microbial Nutrition |
Boundless
Microbiology**

Formulation
Technology We design
differentiated solutions
for a range of
pharmaceutical
formulation
technologies. The

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Quantitation
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technologies we support help address some of the most pressing health challenges and medical trends today.

Formulation Technology - DuPont

Aerobic granules are a type of sludge that can self-immobilize flocs and microorganisms into spherical and strong compact structures. The advantages of aerobic

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granular sludge are excellent settleability, high biomass retention, simultaneous nutrient removal and tolerance to toxicity.

Aerobic granulation - Wikipedia

Aerobic granulation technology is more appropriate for the treatment of high-strength industrial wastewater. For the treatment of low-strength domestic

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wastewater, it will be necessary to increase its COD by the addition of external carbon sources such as volatile fatty acids. Aerobic granules have excellent nutrient removal efficiency.

Aerobic granulation for future wastewater treatment ...

Bacterial
contamination and
biomass harvesting are

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Microbial
still challenges
associated with
coupling of microalgae
and wastewater
treatment technology.
This study investigated
aggregation, bacterial
growth, lipid
production, and
pollutant removal
during bacteria
contaminated *Chlorella*
regularis cultivation
under nutrient
starvation stress, by
supposing the C/N/P
ratios of the medium to

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14/1.4/1 (MB2.5 ...

Granulation, control of bacterial contamination, and

From Wastewater

ETHOCEL™ resins are
excellent granulation

binders for dry
processing, offering

versatility in drug
release rates and

producing hard tablets
with low friability. In

small, effective
amounts, ETHOCEL™

does not adversely

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affect tablet disintegration/dissolution rates.

Fine particle (FP) grades can also offer improved processing conditions.

Granulation - DuPont Nutrition & Biosciences

microbial self-immobilisation processes called biogranulation at the late 1990s [22]. The granular sludge generated via

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Microbial
biogranulation
approaches have
higher biomass
retention and
reusability, broader
selection of bacterial
strains for plausible
bioaugmentation and
higher microbial
density with millions of
bacteria cells per gram

Review on Wastewater Treatment Technologies

Microbial Growth
Page 23/28

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Culture Media Complex
Media: Nutrient

material whose exact
chemical composition
is not known. Widely
used for heterotrophic
bacteria and fungi.

Made of extracts from
yeast, meat, plants,
protein digests, etc.

Composition may vary
slightly from batch to
batch. Energy, carbon,
nitrogen, and sulfur
requirements are

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Nutrition and Growth

Biogranulation technology for wastewater treatment includes anaerobic and aerobic granulation processes. Even though anaerobic granulation has been relatively well studied and known, studies on aerobic granulation have begun recently. The aerobic granular sludge is known to have denser and

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stronger microbial
structure.

Abstract Keyword Introduction

Aerobic granular
sludge (AGS)
technology is a next-
generation technology
for the biological
treatment of
wastewater.

**LOCATION - King
Abdullah University
of Science and
Technology**

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Anaerobic and aerobic granules are formed by a dynamic process involving microbial attachment, detachment and growth, akin to biofilm development (Characklis 1990). There is competition between attached bacteria within the granules and suspended bacteria in the mixed liquor for the nutrients and oxygen.

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