

METHOD FOR FORMING AEROBIC GRANULES, DEVICE FOR FORMING
AEROBIC GRANULES, METHOD FOR TREATING WASTEWATER, AND DEVICE
FOR TREATING WASTEWATER

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ABSTRACT

10 Provided is a method for forming aerobic granules in which a semibatch reactor 10
for forming granules is used, the method involving repeatedly carrying out an inflowing
step for causing organic-matter-containing wastewater that includes organic matter to flow
in, a biological treatment step for biologically treating substances to be treated in the
organic-matter-containing drainage water by using microbial sludge, a settling step for
allowing the microbial sludge to settle out, and a discharge step for discharging
biologically treated water which has been biologically treated, wherein the reaction time is
adjusted such that the value obtained by dividing the total cycle time by the reaction time
15 and multiplying the resulting quotient by the ratio of the MLSS concentration to the BOD
load charged into the semibatch reactor 10 is within a range of 0.05 to 0.25
kgBOD/kgMLSS/d, and the sludge is drawn such that the sludge retention period is 5 to 25
days.

20 [Figure 1]