NSF/ANSI Standard for Drinking Water Additives –

Drinking water treatment chemicals —
Health effects

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B.3.12.1 Preparation

For the preparation of coagulant solutions, the amount of product on a dry weight basis shall be determined. To calculate the weight of the material (dry basis) in a coagulant solution, the following procedure shall be followed.

a) Weigh a clean, dry 100 mL volumetric flask to the nearest ~~0.1 mg~~ 0.01g (Wt A).

b) Pipette a known volume (20-50 mL) of well-mixed coagulant solution into the flask. (Take care not to touch the ground glass.)

c) Weigh the flask and contents to the nearest ~~0.1 mg~~ 0.01g (Wt C).

d) Dilute the solution to volume with DI water. (Take care not to wet the ground glass.) Do not mix.

e) Weigh the flask and contents to the nearest ~~0.1 mg~~ 0.01g (Wt D).

f) After weighing, mix the contents thoroughly and transfer into a 125 mL bottle.

g) Thoroughly rinse the flask with DI water, allow the neck of the flask to dry, then fill the flask to volume with DI water. (Take care not to wet the ground glass.)

h) Weigh the flask and water to the nearest ~~0.1 mg~~ 0.01g (Wt B).

i) The weight of the material (dry basis) shall be calculated as follows:

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Reason: Provides practical limitations for weights recorded during the estimation of chemical tested on a dry weight basis.