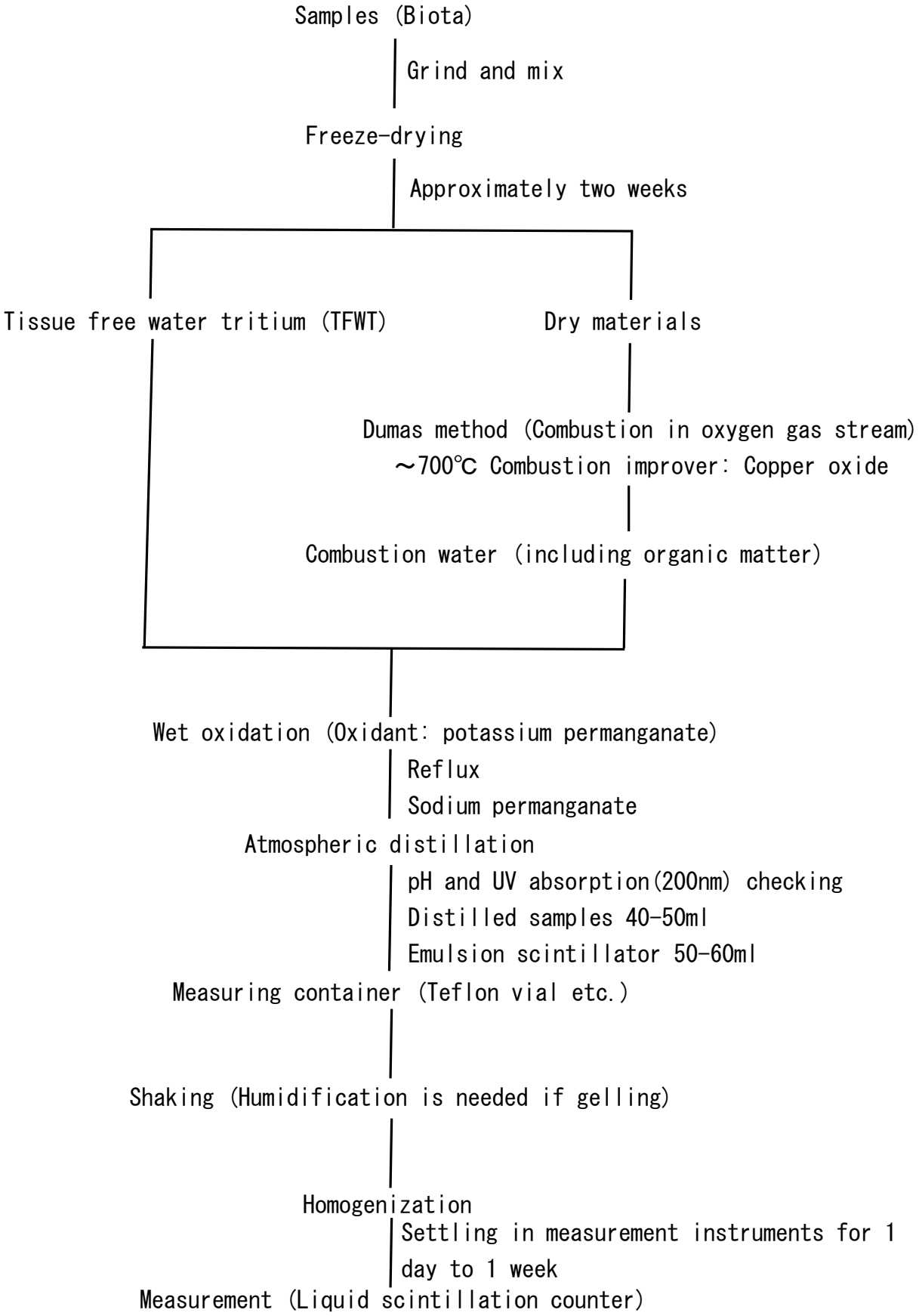
Samples (Biota)
Grind and mix
Freeze-drying
Approximately two weeks
Tissue free water tritium (TFWT)
Dry materials
Dumas method (Combustion in oxygen gas stream)
～700℃ Combustion improver: Copper oxide
Combustion water (including organic matter)
Wet oxidation (Oxidant: potassium permanganate)
Reflux
Sodium permanganate
Atmospheric distillation
pH and UV absorption(200nm) checking
Distilled samples 40-50ml
Emulsion scintillator 50-60ml
Measuring container (Teflon vial etc.)
Shaking (Humidification is needed if gelling)
Homogenization
Settling in measurement instruments for 1 day to 1 week
Measurement (Liquid scintillation counter)