## lodine method (safety glasses + fume hood!)

- 1. Wash BC membrane with distilled water and treat with 1% NaOH at 80 °C for 1 h
- 2. Rinse with distilled water
- 3. Dry BC membrane at 80 °C for 2 h (about 400 mg dry weight per sample)
- 4. Place sample in 50 mL three-necked flask fitted with mechanical stirrer
- 5. Add 20 mL of acetic anhydride and 0.63 mg of iodine
- 6. Heat mixture to 80 °C for 1 h (with stirring)
- 7. Let flask cool to room temperature
- 8. Add saturated sodium thiosulfate solution and stir until colourless
- 9. Wash BC sample thoroughly using 75% (v/v) ethanol and then using distilled water
- 10. Dry sample in vacuum oven at 60 °C for 12 h

## Perchloric acid method (safety glasses + fume hood!)

- Wash wet BC sample (1 cm thick) with distilled water and treat with 1% NaOH at 80 °C for 1 h
- 2. Rinse with distilled water
- Cut BC sample in piece of 10 cm × 10 cm (× 1 cm) (= 150 mg dry weight?) and squeeze by hand (gloves!)
- 4. Soak sample in anhydrous acetic acid
- 5. Repeat squeezing and soaking with acetic acid three times
- Place sample in stoppered glass bottle containing 20 mL of acetic acid, 25 mL of toluene, and 85.7 μL of 70% perchloric acid
- 7. Shake mixture vigorously for about 1 min.
- 8. Add 10 mL of acetic anhydride
- 9. Shake mixture vigorously for about 1 min.
- 10. Let mixture stand at room temperature for 1 h
- 11. Squeeze sample (**gloves!**) and wash thoroughly with methanol, then with distilled water