

Protocol II: Measurement of cellulose content in a sample using Carbotrace 680

This protocol describes how to use **Carbotrace 680** to determine cellulose content in a sample.

Solutions and Reagents:

Carbotrace 680 is provided as concentrated solution. The following common reagents are required (not supplied):

- Phosphate buffered saline (PBS), pH 7.4
- 96-well plate (round bottom)
- Spectrophotometer

Assay Procedure:

- Prepare a dilution series of your cellulose containing sample in PBS (e.g.: 1, 1:2, 1:5, 1:10, 1:100, 0)
- Dilute Carbotrace 680 in PBS 1:500.
- Add 50 µl of each cellulose containing dilution into a well of a 96-well plate.
- Add 50 µl diluted Carbotrace 680 to each cellulose containing dilution and the blank control.
- Measure emission using spectrophotometer settings (see 'Spectrophotometer Settings' below).

Spectrophotometer Settings:

- Carbotrace 680: Excite at 540 nm and collect emission at 680 nm. Optional: Record an emission spectrum (560 - 800 nm) with 540 nm excitation.

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