

# CMC-plates with Congo red assay

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## Introduction

From Osaka iGEM 2010 Lab notes: <http://2010.igem.org/Team:Osaka/Protocols>

## Materials

- › 0.1% congo red solution
  - › Congo red (KISHIDA) is water-soluble. [http://www.merckmillipore.com/FI/en/product/Congo-red-%28C.I.-22120%29,MDA\\_CHEM-101340#overview](http://www.merckmillipore.com/FI/en/product/Congo-red-%28C.I.-22120%29,MDA_CHEM-101340#overview)
- › 1% CMC medium
  - › CMC medium is LB medium containing 1% CMC (carboxymethylcellulose, CMC).
- › 1M NaCl
- › 5% acetic acid

## Procedure

### Plate assay

1. Spread 0.1% Congo red solution 5ml onto CMC plate entirely and stain it for 30min.
2. Discard fully-reacted solution and rinse the plate surface by distilled water.
3. Add 1M NaCl 5ml and leave for 5min.
4. Discard NaCl solution and rinse plate surface by distilled water.
5. Add 5% acetic acid and leave for 5min.
6. Observe and record the halo size.