

# CRAC™

## STANDARD OPERATING PROCEDURE (SOP)

CRAC™ is compatible with all processing solvents, though primarily recommended for ethanol. Sifted to prevent downstream dust contamination, it's ideal for filter cake applications or inline columns that accommodate powdered carbon. A minimum of 10% m/m of the estimated extract in solution is recommended.

**SAFETY:** Please adhere to the safety and handling instructions in the CRAC™ Safety Data Sheet (SDS), included with your shipment, available at [mediabros.store](https://mediabros.store), or by emailing [sales@mediabros.store](mailto:sales@mediabros.store).

### REQUIRED MATERIALS:

- CRAC™ FILTRATION MEDIA
- IN-LINE FILTRATION HOUSING & FILTER
  - CRC COLUMN SIZE: For best results, use a 4-6 inch diameter column.
  - FILTER: Optimized for use with a  $\leq$ 5-micron screen filter followed by a 0.2-micron, Media Bros Ulti-Filter.

### RECOMMENDED CONDITIONS:

**SOLVENT-TO-BIOMASS RATIO:** 6:1 to 10:1

**OPERATING TEMPERATURE:** Below -10°C, will not clog due to ice

**FLOW RATE:** < 1GPM. A needle valve or flow restrictor at the column base improves flow control.

### PROCEDURE:

1. **DETERMINE YOUR RATIO.** For every pound of biomass, load 100-200 grams of CRAC™ into the filtration housing. The exact amount depends on the quality of the biomass and the desired outcome. Refer to our quick reference table to determine the recommended ratio:

| CRAC™ (Media Use Based on Grade) |           |              |            |
|----------------------------------|-----------|--------------|------------|
| Plant Matter                     | Low Grade | Medium Grade | High Grade |
| 1 lb                             | 200g      | 150g         | 100g       |
| 2 lbs                            | 400g      | 300g         | 200g       |
| 5 lbs                            | 1,000g    | 750g         | 5000g      |
| 10 lbs                           | 2,000g    | 1,500g       | 1,000g     |
| 15 lbs                           | 3,000g    | 2,250g       | 1,500g     |
| 20 lbs                           | 4,000g    | 3,000g       | 2,000g     |
| 25 lbs                           | 5,000g    | 3,750g       | 2,500g     |
| 30 lbs                           | 6,000g    | 4,500g       | 3,000g     |
| 50 lbs                           | 10,000g   | 7,500g       | 5,000g     |
| 100 lbs                          | 20,000g   | 15,000g      | 10,000g    |

2. **SECURE FILTER SCREEN AND MEDIA.** Ensure the filter screen is safely installed. A cloth or paper filter may be combined with a screen or plate. Load media directly into the column, on top of the filter screen.
3. **NO PRE-WETTING REQUIRED.** CRAC™ is designed to be used dry.
4. **RUN EXTRACTION USING A POLAR OR NON-POLAR SOLVENT.** Any lost yield can be recovered by flushing the media with pure solvent.
5. **DISPOSAL.** Follow all SDS instructions for safe disposal.

**QUESTIONS?** Contact [sales@mediabros.store](mailto:sales@mediabros.store) for more information.