media bros

PR-W™

STANDARD OPERATING PROCEDURE (SOP)

PR-W™ is compatible with all processing solvents but recommended for powdered ethanol applications. It's sifted to prevent downstream dust contamination and suited for filter cake applications or in-line columns that accept powdered carbon. The minimum recommended ratio is 10% m/m of the estimated extract in solution.

SAFETY: Please adhere to the safety and handling instructions in the PR-W™ Safety Data Sheet (SDS), included with your shipment, available at mediabros.store, or by emailing sales@mediabros.store.

REQUIRED MATERIALS:

- **PR-W™ FILTRATION MEDIA**
- **IN-LINE FILTRATION HOUSING & FILTER OR CHROMATOGRAPHY COLUMN**
  - **CRC COLUMN SIZE:** For best results, use a 4-6 inch diameter column.
  - **FILTER:** Optimized for use with a ≤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 PR-W™ 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:

PR-W™ (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.** PR-W™ 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 for more information.