

Document # xxxx	<b>CRC (Dred Pirate Method)</b>	Company Name/Logo
Revision Date: 3/25//2019		Page 1 of 4

Document Control - Document Revision & Approval History					
Revision	Pages	Prepared By	Reviewed By	Approved By	Date

Purpose	The purpose of this procedure is to provide detailed instructions for Color remediation from an initial extraction with hydrocarbons.
---------	---

Definitions	Term	Definition
	PPE	Personal Protection Equipment (PPE) Items worn to protect employees from exposure to hazardous materials and prevention of injury.

References	Document Number	Document Title

### Safety

SDS Sheets: Available in the laboratory on all chemicals used in this process.

PPE: The following should be worn by all lab personnel during Extraction and preparation:

- a. Splash goggle
- b. Lab coat
- c. Gloves
- d. Breathing mask

### Hazard Identification

Preparation and Use:

- a. Concentrate will be extracted from flower with a hydrocarbon mix of choice. The recovery of the solvent mix will be done in a controlled method to retain terpene profile
  - i. Concentration- Use preferred solvent blend for preparation (**Insert product name and purchase location**).
  - ii. Quantity- 5 parts solvent mix : 1 part material
  - iii. Frequency- An initial volume of solvent is used, no more is added.
  - iv. Location- Extraction occurs in a Closed Loop hydrocarbon extractor, color

Document # xxxx	<b>CRC (Dred Pirate Method)</b>	Company Name/Logo
Revision Date: 3/25//2019		Page 2 of 4

remediation is done in an inline filter, before transferring into collection.  
Potential Hazards and Risks

- a. See Butane and Propane SDS for detailed risks.

Procedure

1. Load material column of required run size.
2. Chill solvent tank **-50 or colder**.
3. Prepare **CRC** filter. **Celite 545, T5 Bentonite Clay, Silica 60, and Activated Alumina (all media can be purchased through any Carbon Chemistry participating retailer)**
4. In your filter plates arrange filters in a three stage filtration using 20/8/1 micron filter papers. Or similar micron filter.
5. Use media in ratios of: **FOR EACH KILO OF BIOMASS**
  - a. **Activated alumina 100g**
  - b. **Silica 60 100g**
  - c. **T5 Bentonite Clay 175-200g**
  - d. **Celite 545**
6. On top of the 20-25 micron paper, fill the center retention ring with **Celite 545**. Weight isn't recorded for this, as it is only used to prevent particles slipping through. Just fill the center area of retention ring and press down evenly with flat surface to top of ring. ***If using @indofab CRC, skip this step of needing staged paper. And use small amount of Celite on sintered disc.***
7. Layer **T5** above **Celite**. Lightly pack down with flat surface to keep even. Followed by **Silica 60**, and on top **Activated Alumina**
8. **(Optional)** Dewax solution inline. With this preparation, use filter media after (optional, but recommended for best remediation capabilities) dewax chamber.
9. Pull vacuum on entire system.
10. Start run per standard **SOP**.
11. Flood column, let solvent soak all material and media in filters before releasing into collection. Desired soak time and temperature, up for personal discretion. Slowly open valve to collection, careful to not rush solvent flow,

Document # xxxx	<b>CRC (Dred Pirate Method)</b>	Company Name/Logo
Revision Date: 3/25//2019		Page 3 of 4

rushing extremely fast will cause binding and clogging, drastically slowing flow. Slowly open valve, not all the way open. There is a sweet spot to this and that is different for each setup. Find the right speed to dictate flow.

12. Once desired (5:1) amount of solvent has been flushed across material and media, finish run per standard **SOP**.

13. A nitrogen sweep to push remaining solvent from column, or hot vapor loop from solvent tank to get remaining solvent from material. You don't want to puncture your paper filters and cause media slipping through.

14. After dewax: open dump valve, filter fats through top layer of **Activated Alumina** , letting solution fill media filters before transferring into collection. Once media has been saturated. Slowly open collection, as step **11 outlines**.

15. Resume/Start recovery, per standard **SOP**.

### Contact and Links for CRC and media

1. For CRC sales

Email: [Sales@indofabsolutions.com](mailto:Sales@indofabsolutions.com)

IG: @indofabsolutions

2. Media Sales For **Carbon Chemistry** products

IG: @killa1245\_concentrates

Email: mikerotkowitz@gmail.com

3. Help, Assistance, In Person Consulting

IG: @Dred\_Pirate

Email: IanInglis@gmail.com

### Training

All personnel shall read and fully adhere to this SOP when extracting for color remediation production, and should be trained hands on with this extraction and procedure.

"I have read and understand this SOP. I agree to fully adhere to its requirements"

Last	First	Employee ID	Signature	Date
------	-------	-------------	-----------	------

Document # xxxx	<b>CRC</b> <b>(Dred Pirate Method)</b>	<b>Company</b> <b>Name/Logo</b>
Revision Date: 3/25//2019		Page 4 of 4
