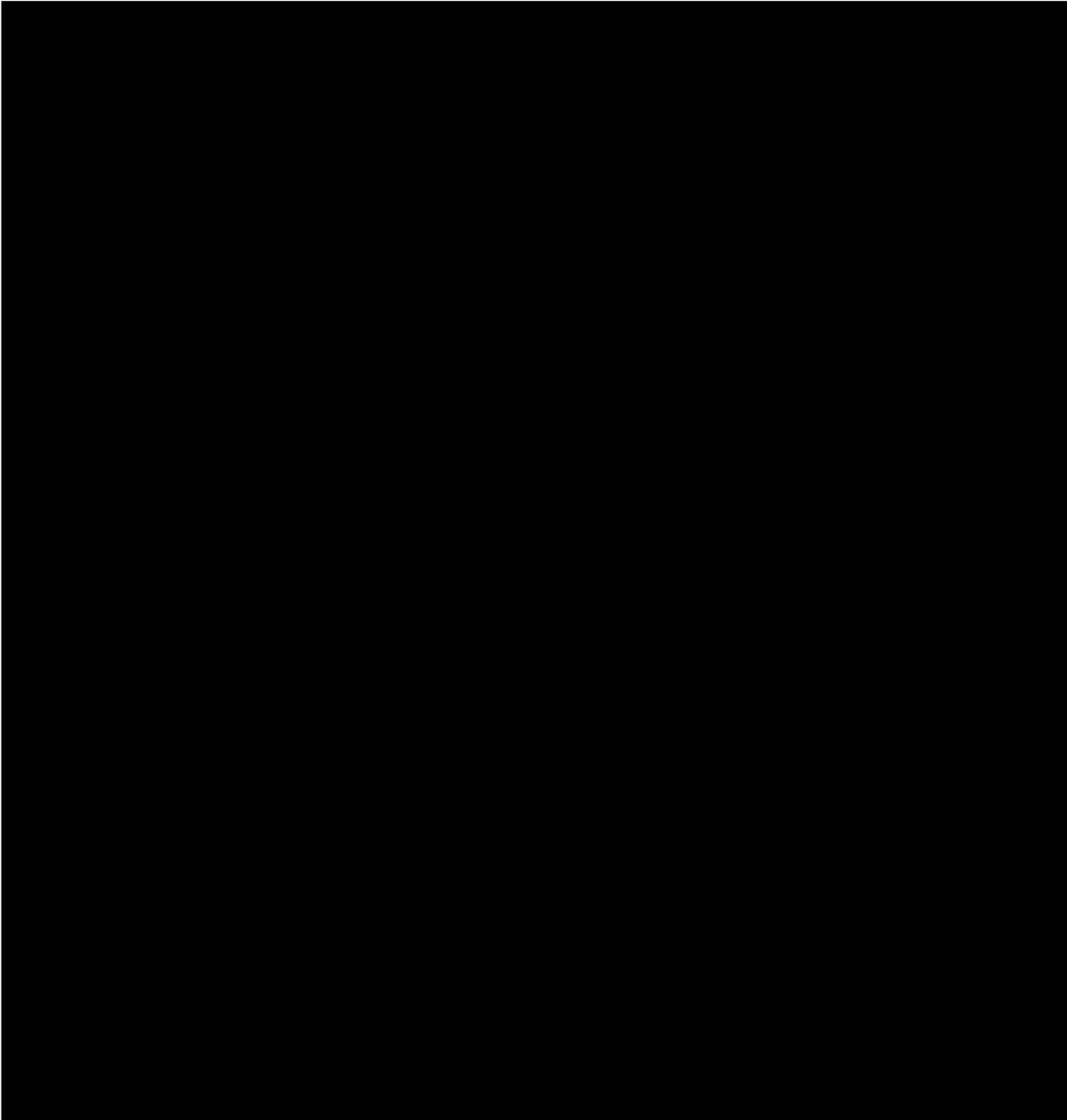
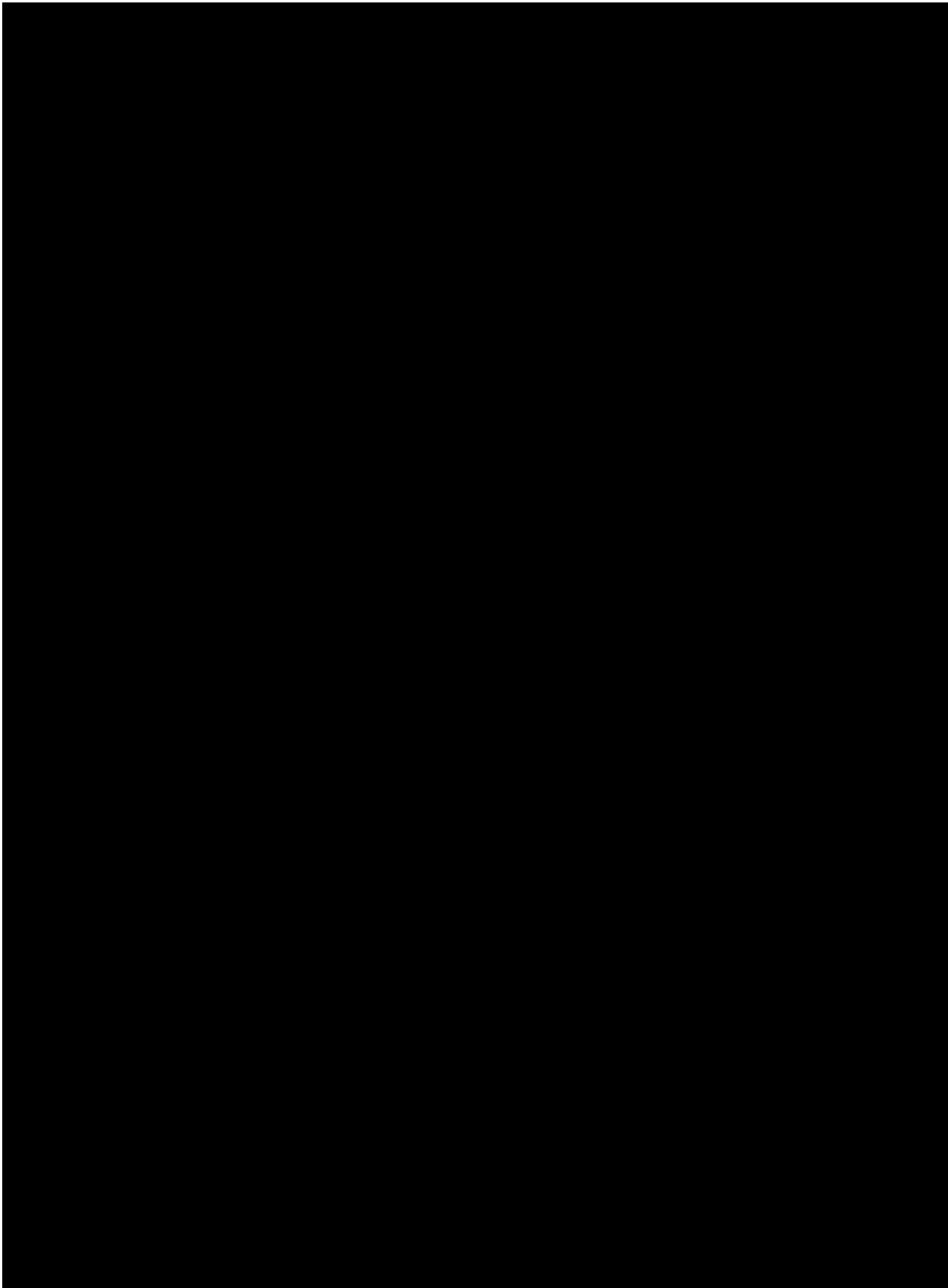


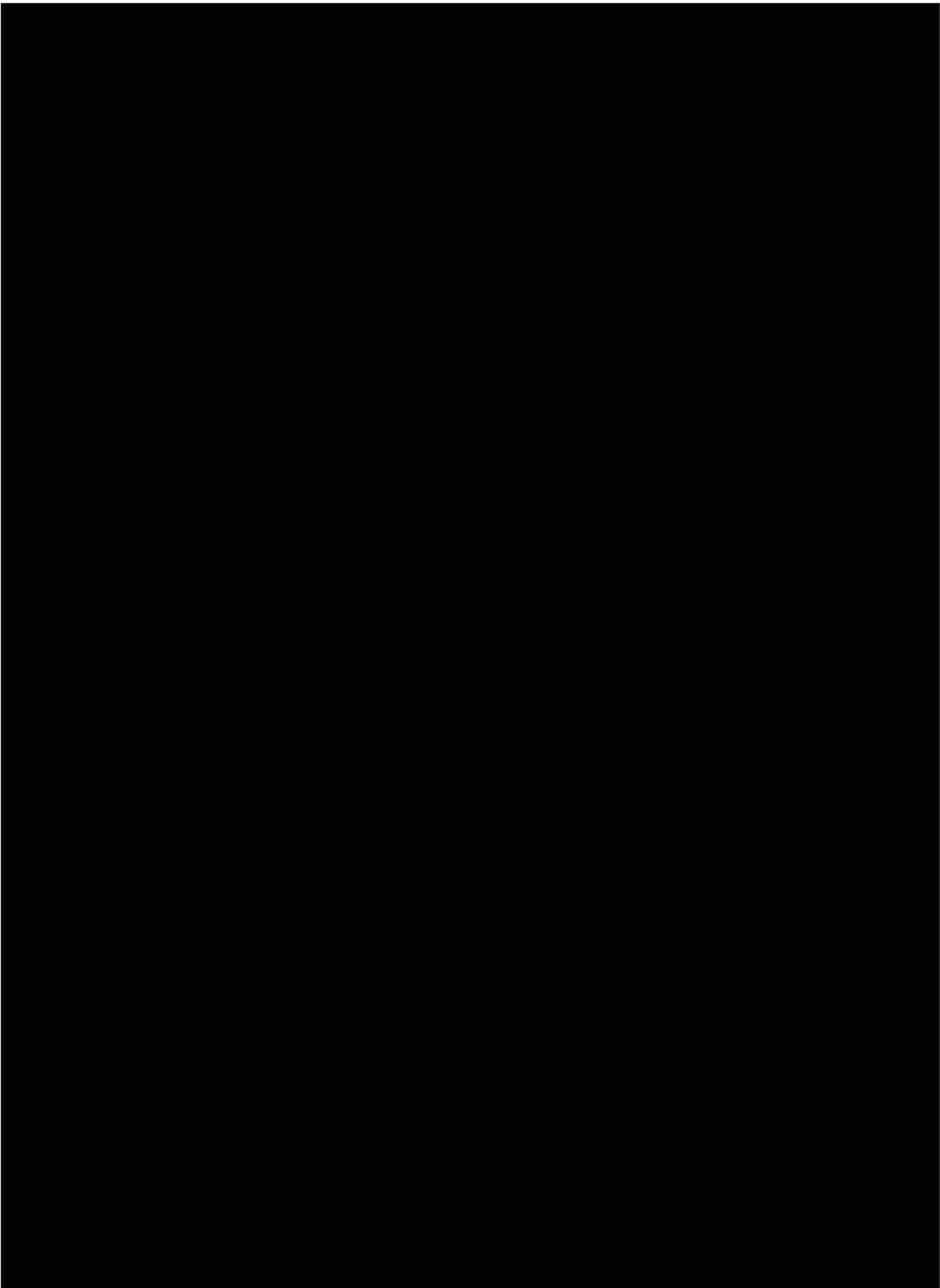


SUPERCritical RUN

STANDARD OPERATING PROCEDURES







DRY & DECARB OVENS



NRTL CERTIFICATION

CAN/CSA-C22.2 No. 61010-1:2012
+ UPD No. 1:2015-07 + UPD No. 2:2016-04

CAN/CSA-C22.2 No. 61010-2-010:2015

UL 61010-1:2012/R:2016-04

UL 61010-2-010:2015

EN 61010-1:2010

EN 61010-2-010:2014



MODEL CDO-5
BENCHTOP



MODEL CDO-28
INDUSTRIAL

CAPACITY

Interior:

4.9 Cubic Ft

21"W x 19.44"D x 20.75"H

Exterior:

34.1"W x 28.1" D x 38.75"H

Access Port:

2.75" Diameter (Rear)

28 Cubic Ft

31.5" W x 26" D x 60.5" H

43" W x 34.3" D x 85.5" H

2.75" Diameter (Rear)

SHELVING

2 Each. Adjustable
20.75"W x 19"D

Maximum:

9 Shelves/4 Mesh Bags

Weight Capacity:

50 lbs

Mesh Bags:

2 Included - 15.5"D x 21"W

6 Each. Adjustable
31.1" W x 23.9"D

16 Shelves/10 Mesh Bags

75 lbs

6 Included - 28.5"W X 22"D

TEMPERATURES

Range:

Ambient +26° to 350°F

Without Humidity Sensor:

To 500F

Uniformity:

1.5F @ 240°F

Ambient +26° to 350°F

To 500F

3.6F @ 240°F

AIRFLOW

Across Shelf Space:

15.2 cubic ft per min

17.7 cubic ft per min

FACILITIES

Power:

120V / 1ph / 14A

Cord Type:

110V-120V NEMA 5-15 9'5"L

Air Intake (Adjustable):

Side Vents

Air Exhaust (Adjustable):

Top 2.75" Dia

Recommended Clearance:

12-24" all sides

230V-240V/1ph/26A (208V OK)

None. Must Be Hardwired

Top 2.75" Dia

Top 2.75" Dia

12-24" all sides

WEIGHT

Shipping:

208 lbs

258 lbs

565 lbs

75 lbs

WANT TO LEARN MORE?

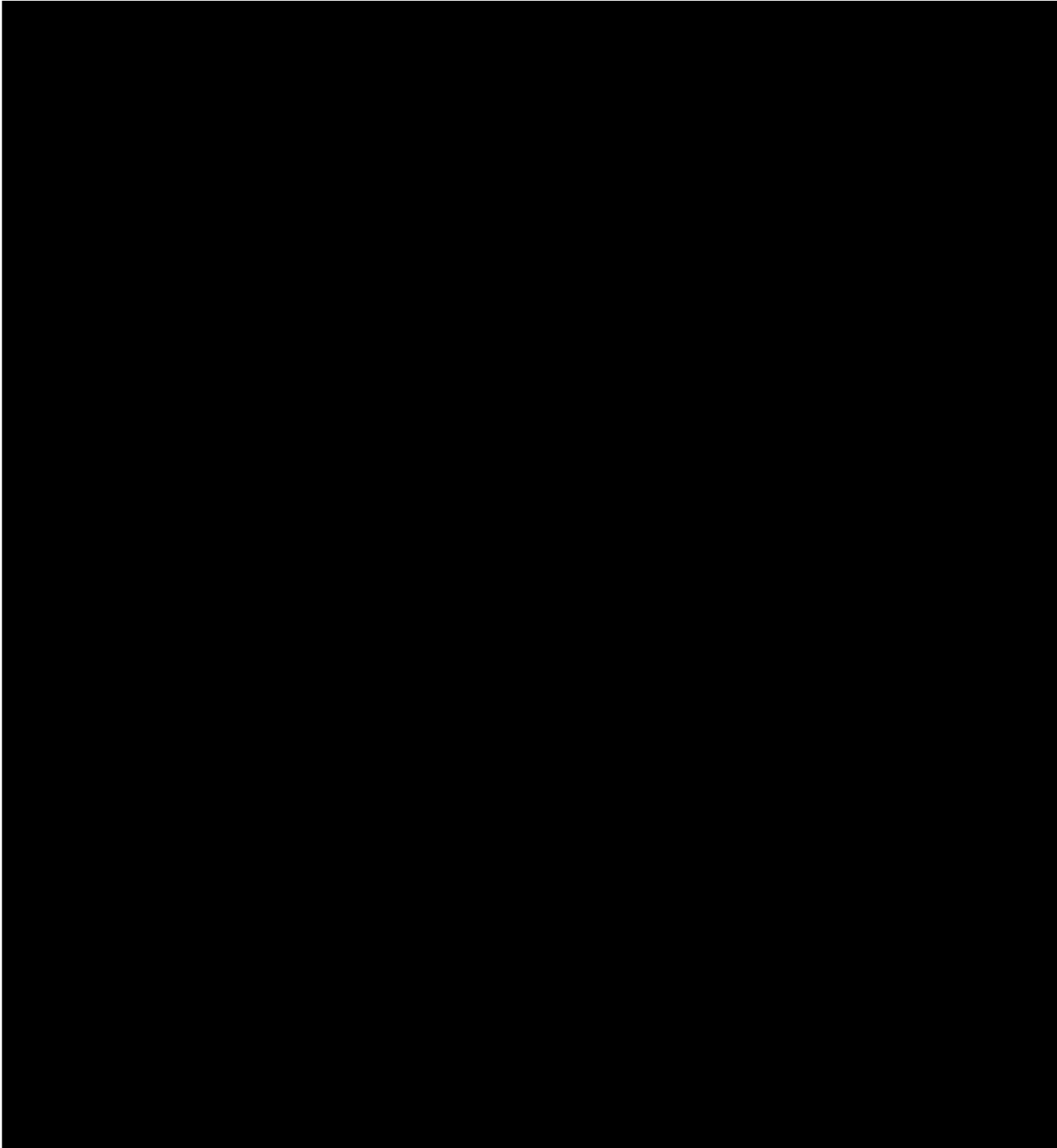


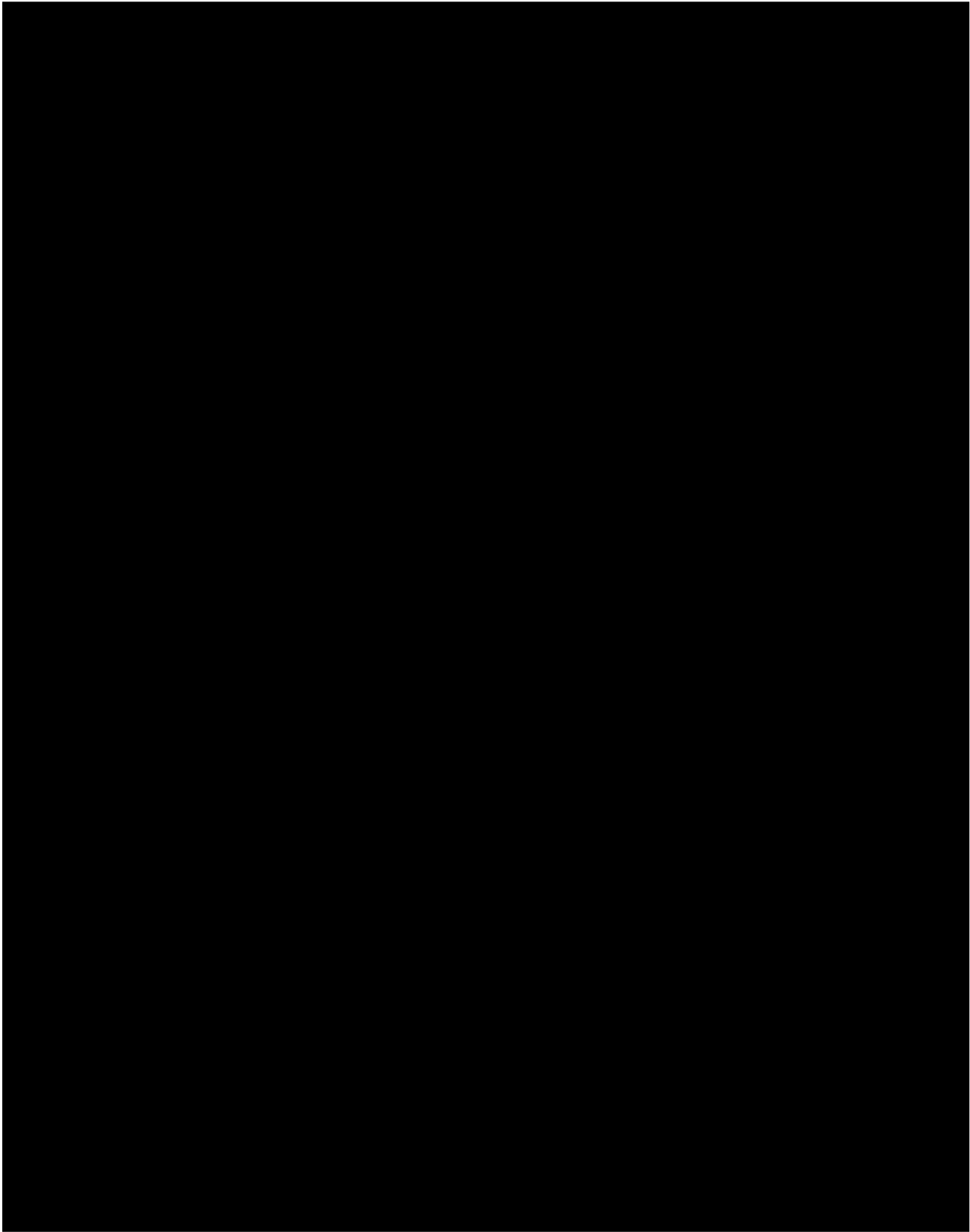
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ETHANOL RECOVERY USING HEIDOLPH

STANDARD OPERATING PROCEDURES

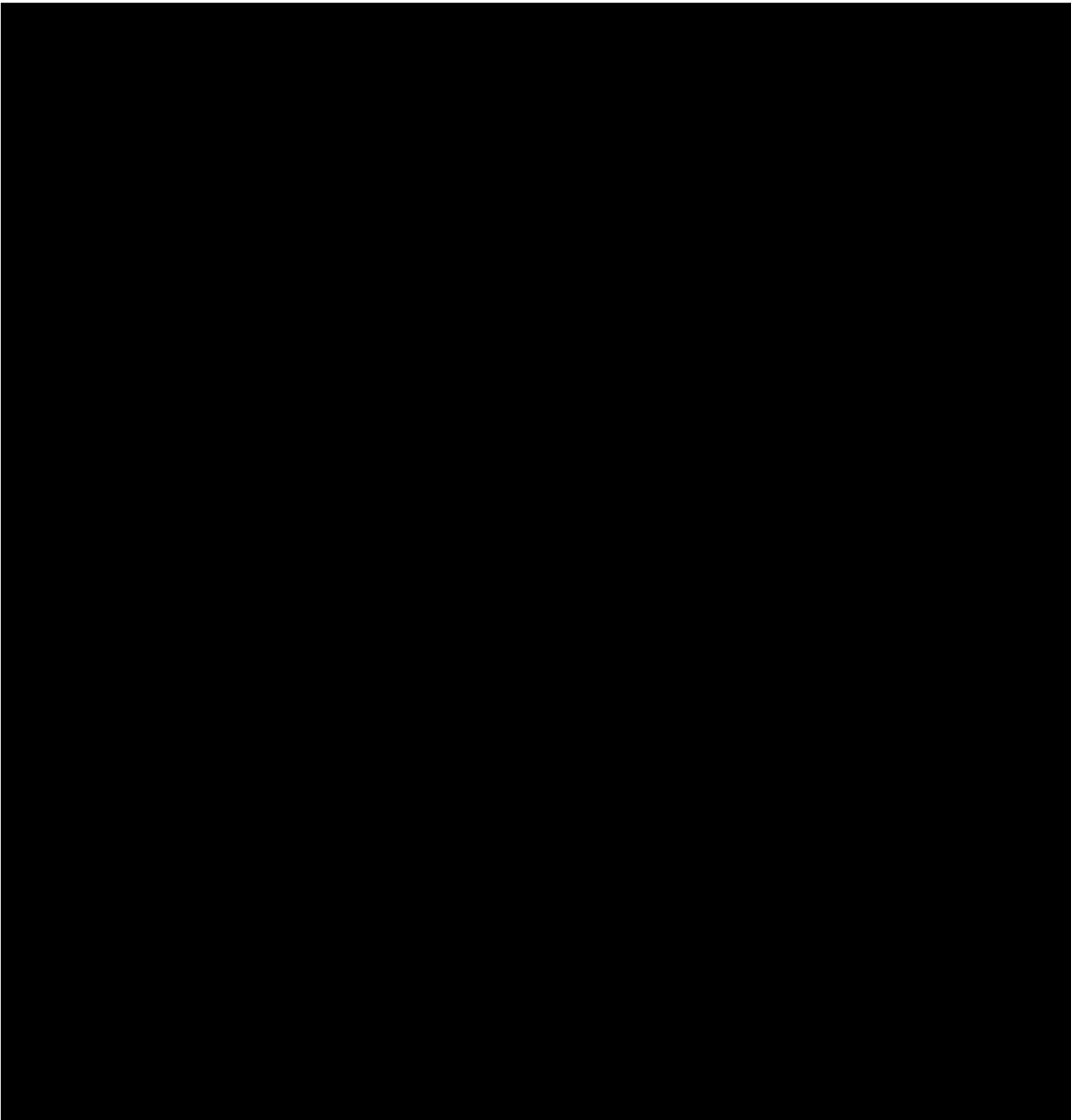


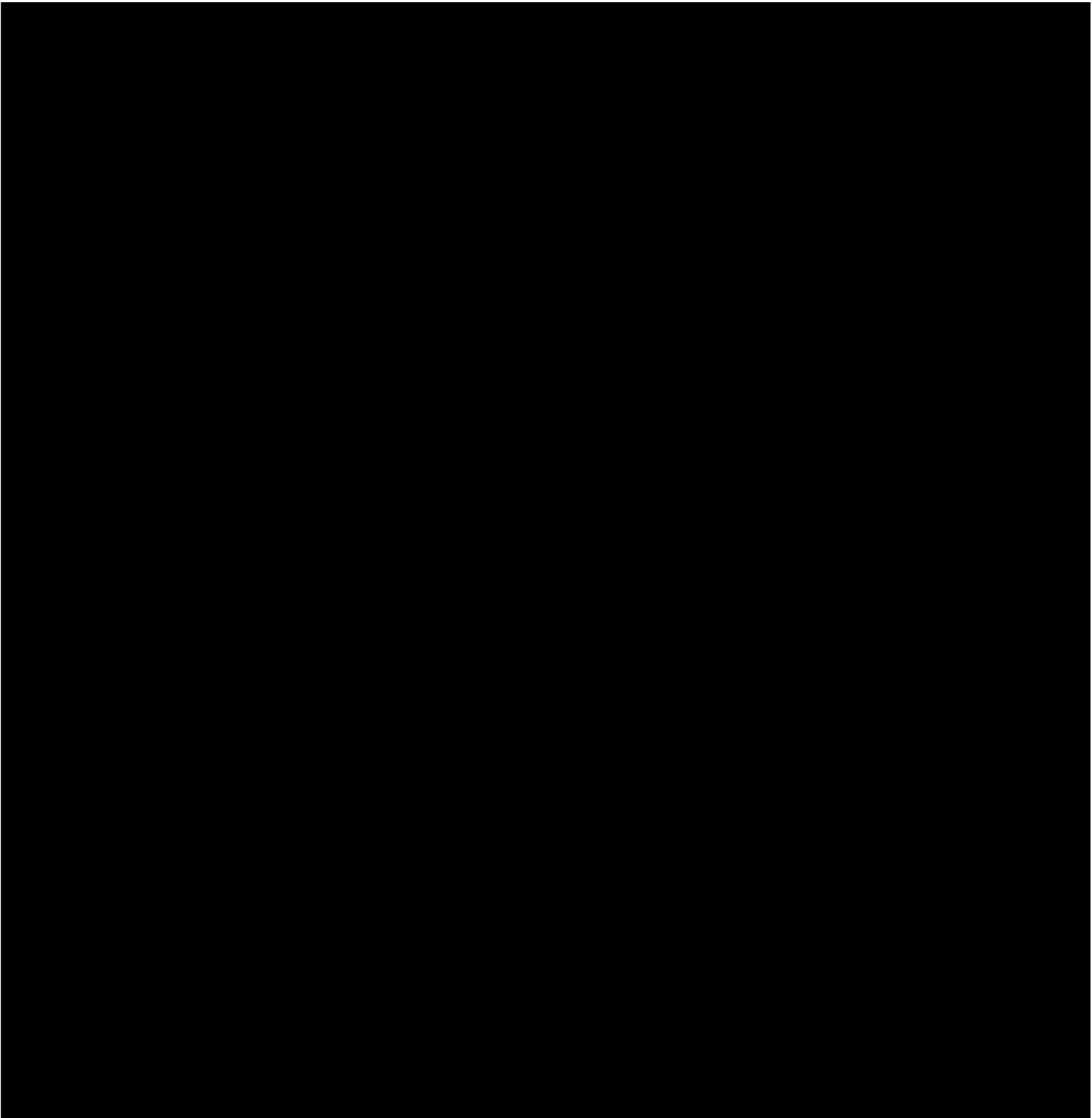




WINTERIZING / FILTERING USING INFINITY

STANDARD OPERATING PROCEDURES

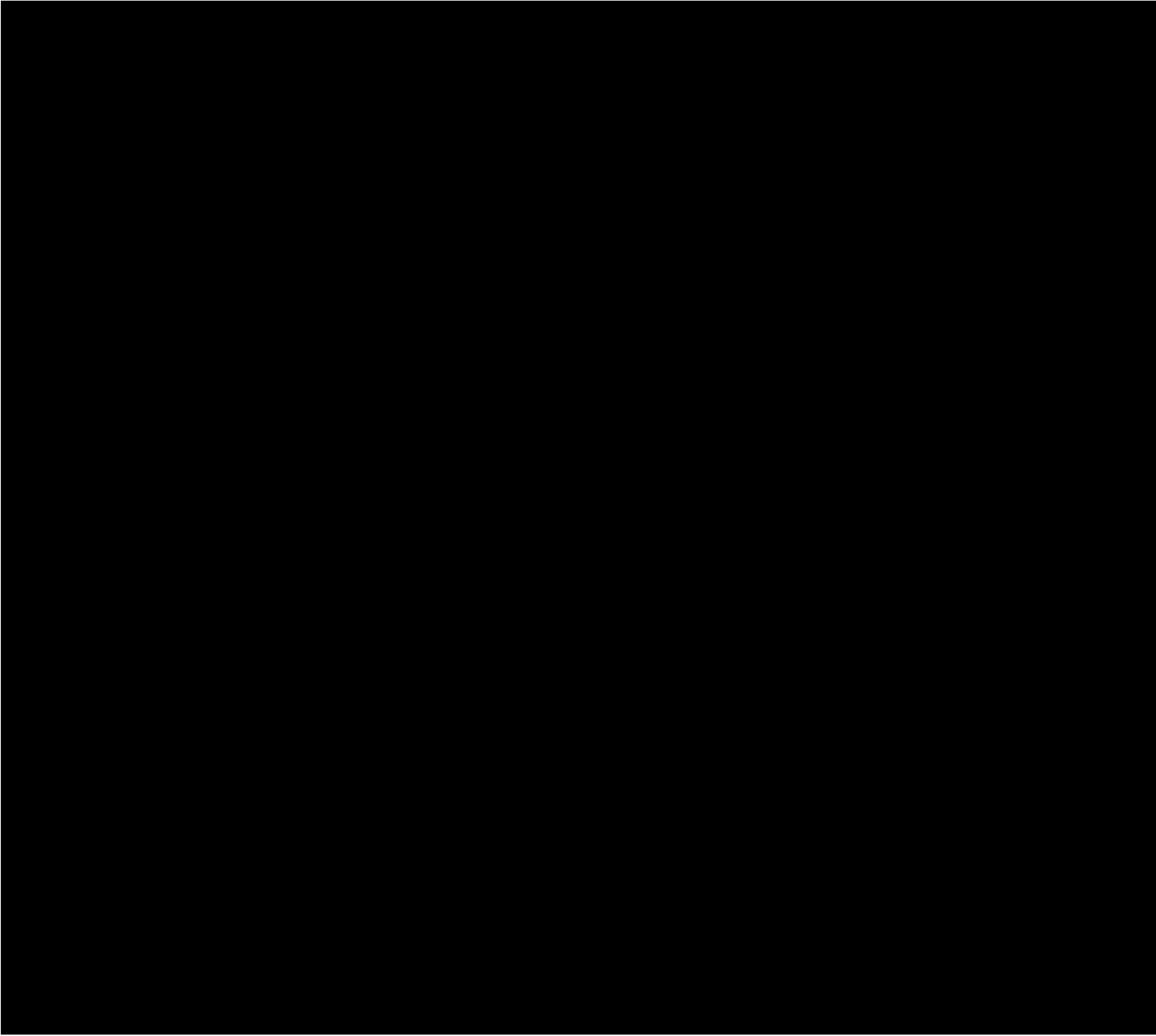






ULTRASONIC CLEANER

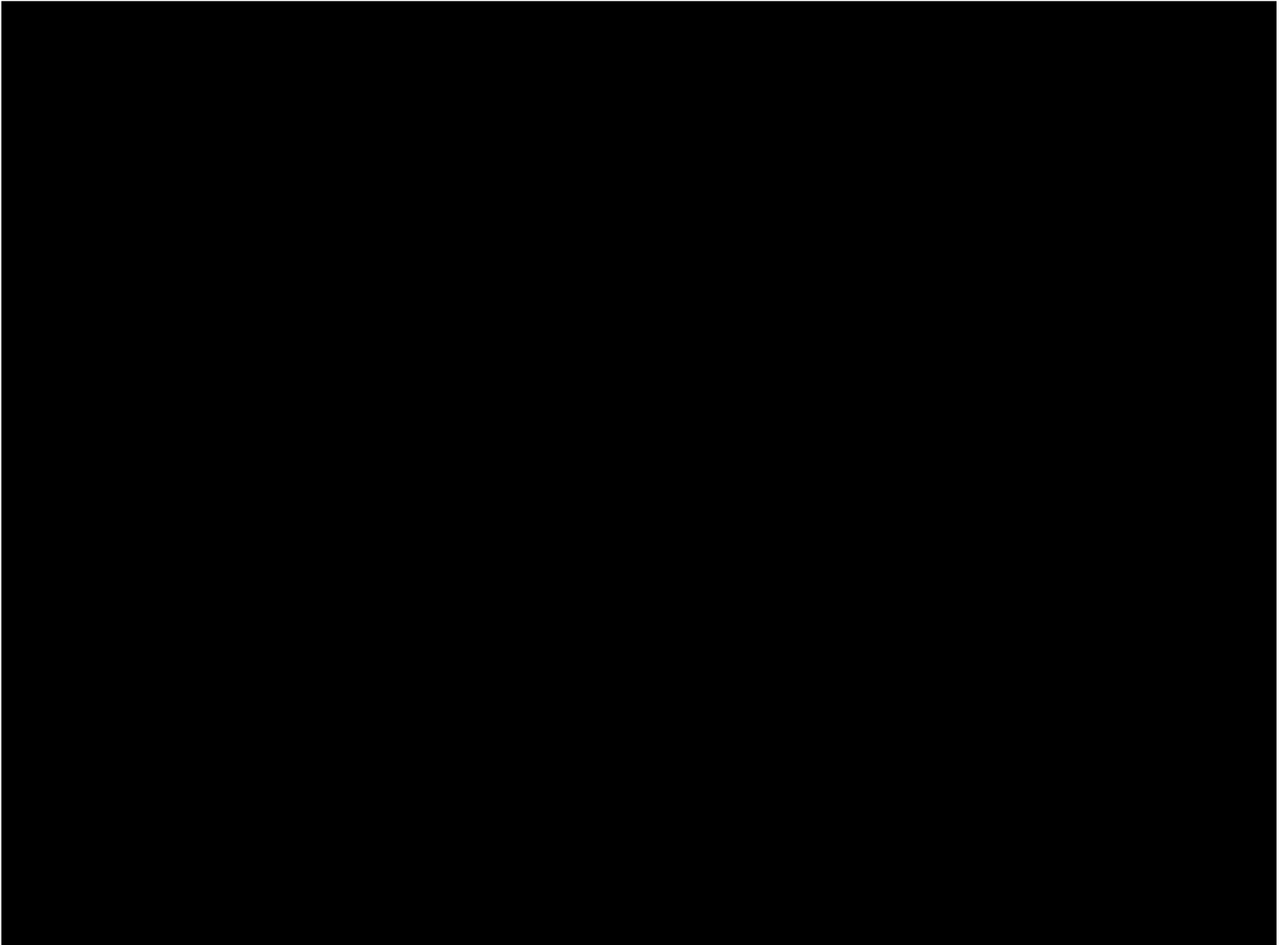
STANDARD OPERATING PROCEDURES





SUPERCritical FLUSH

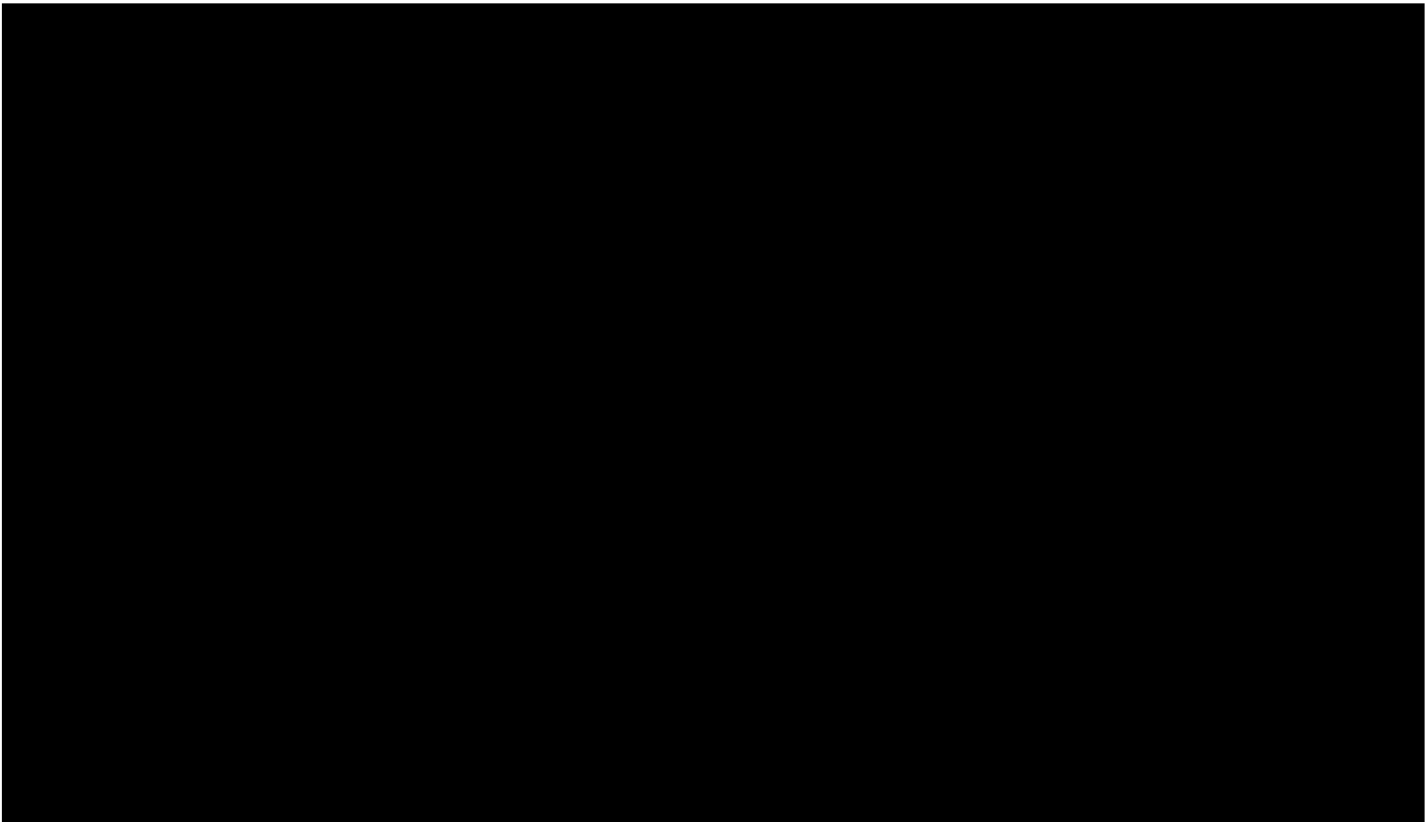
STANDARD OPERATING PROCEDURES





GRINDING FOR BABY JANE

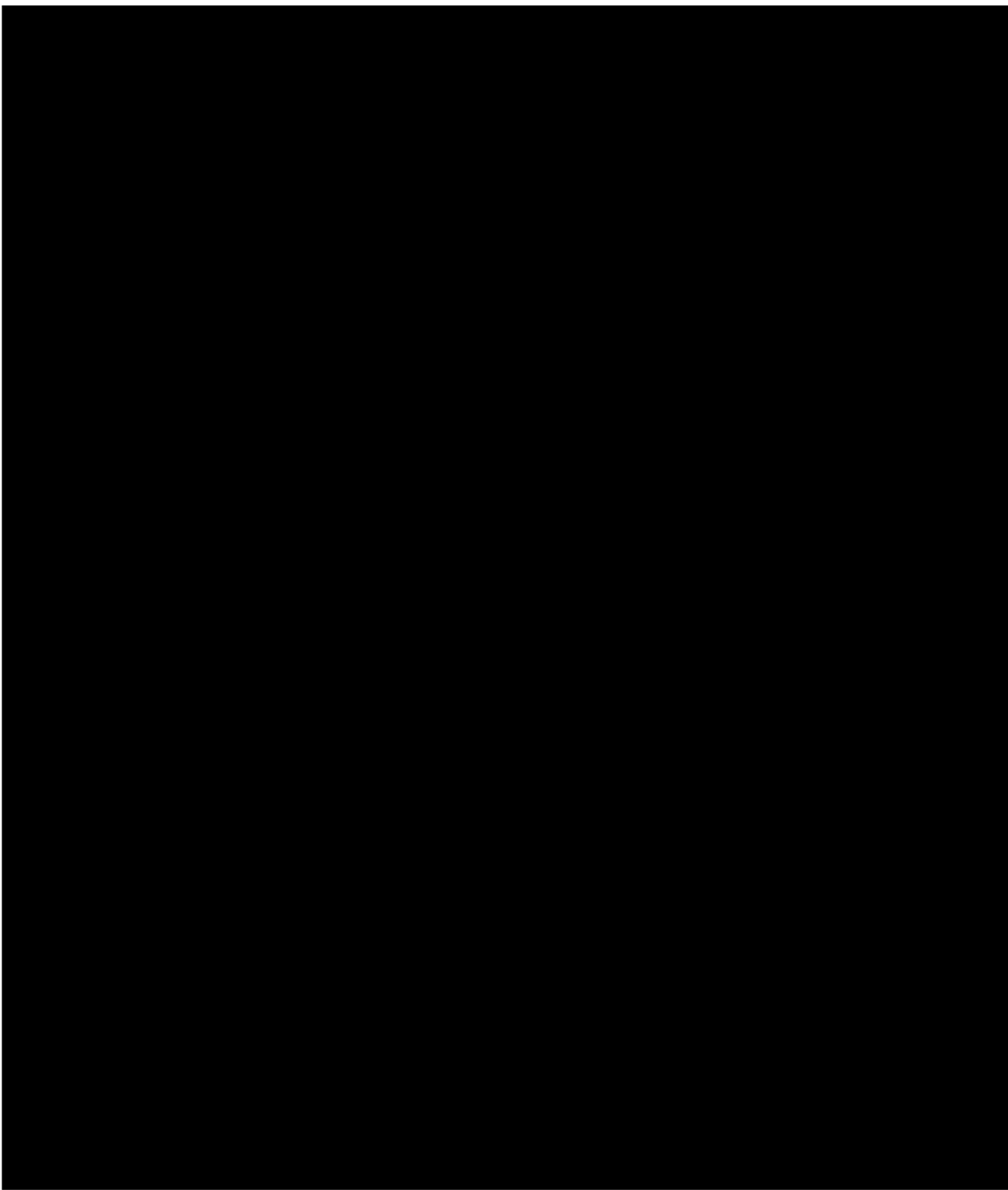
STANDARD OPERATING PROCEDURES

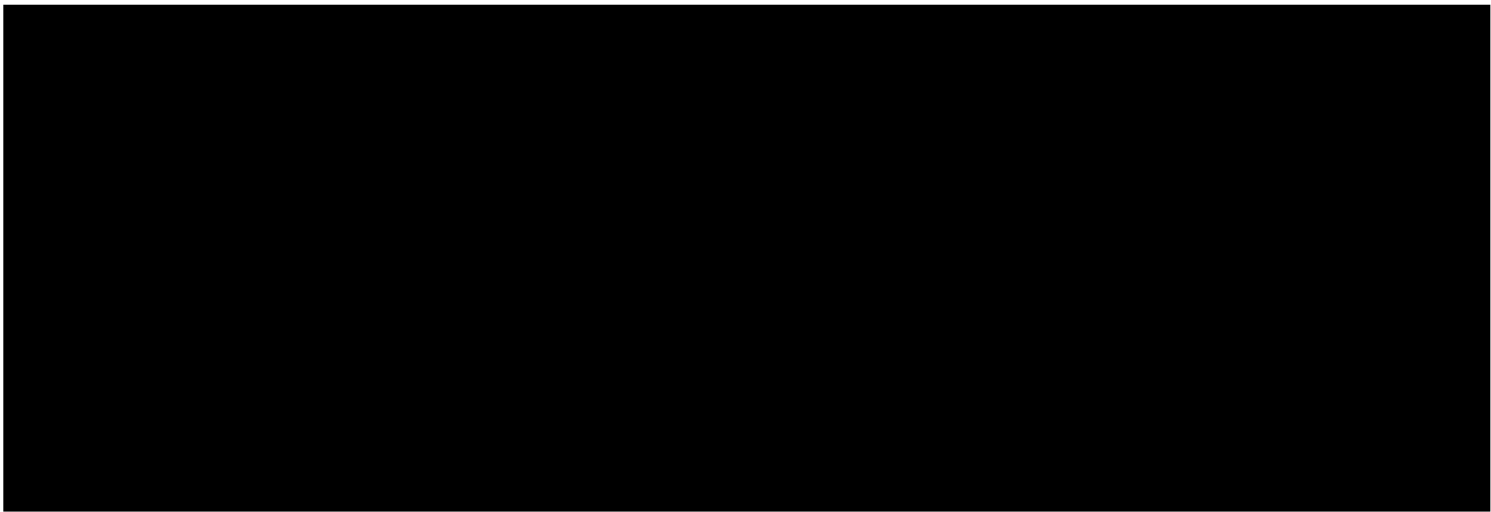




ETHANOL RECOVERY USING GLASS REACTOR

STANDARD OPERATING PROCEDURES

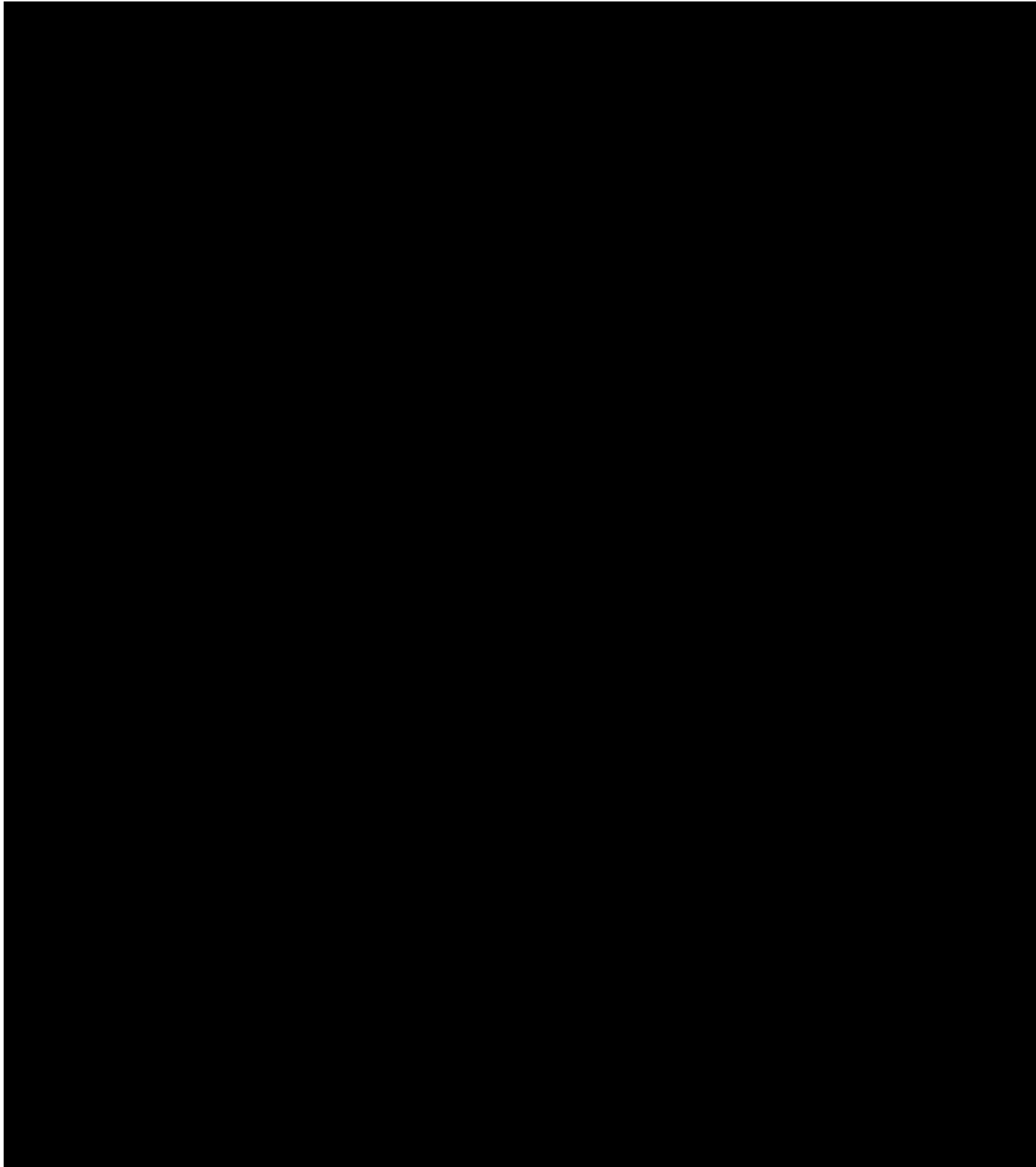


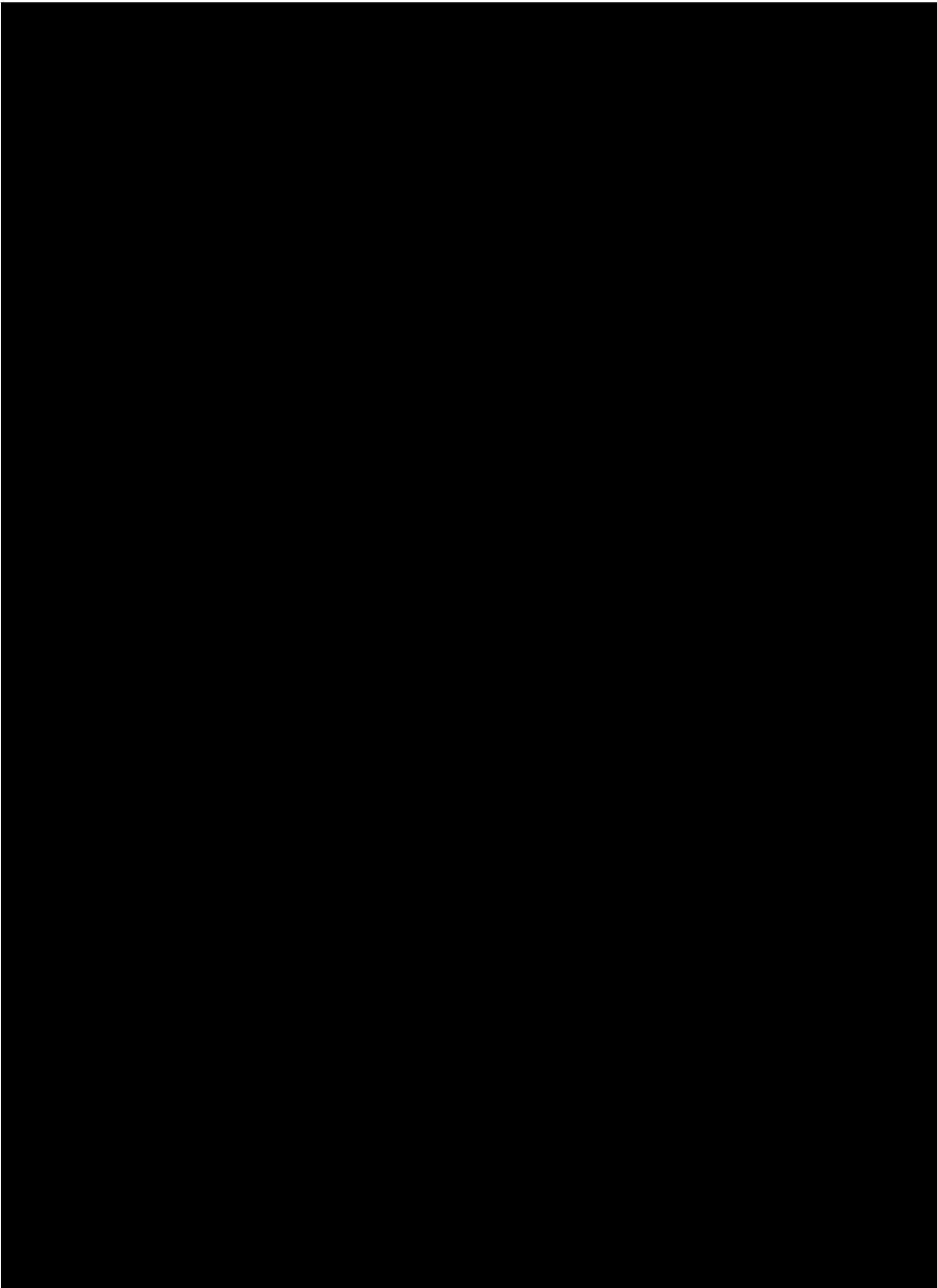




DECARBOXILATION USING TRUSTEEL DR10

STANDARD OPERATING PROCEDURES

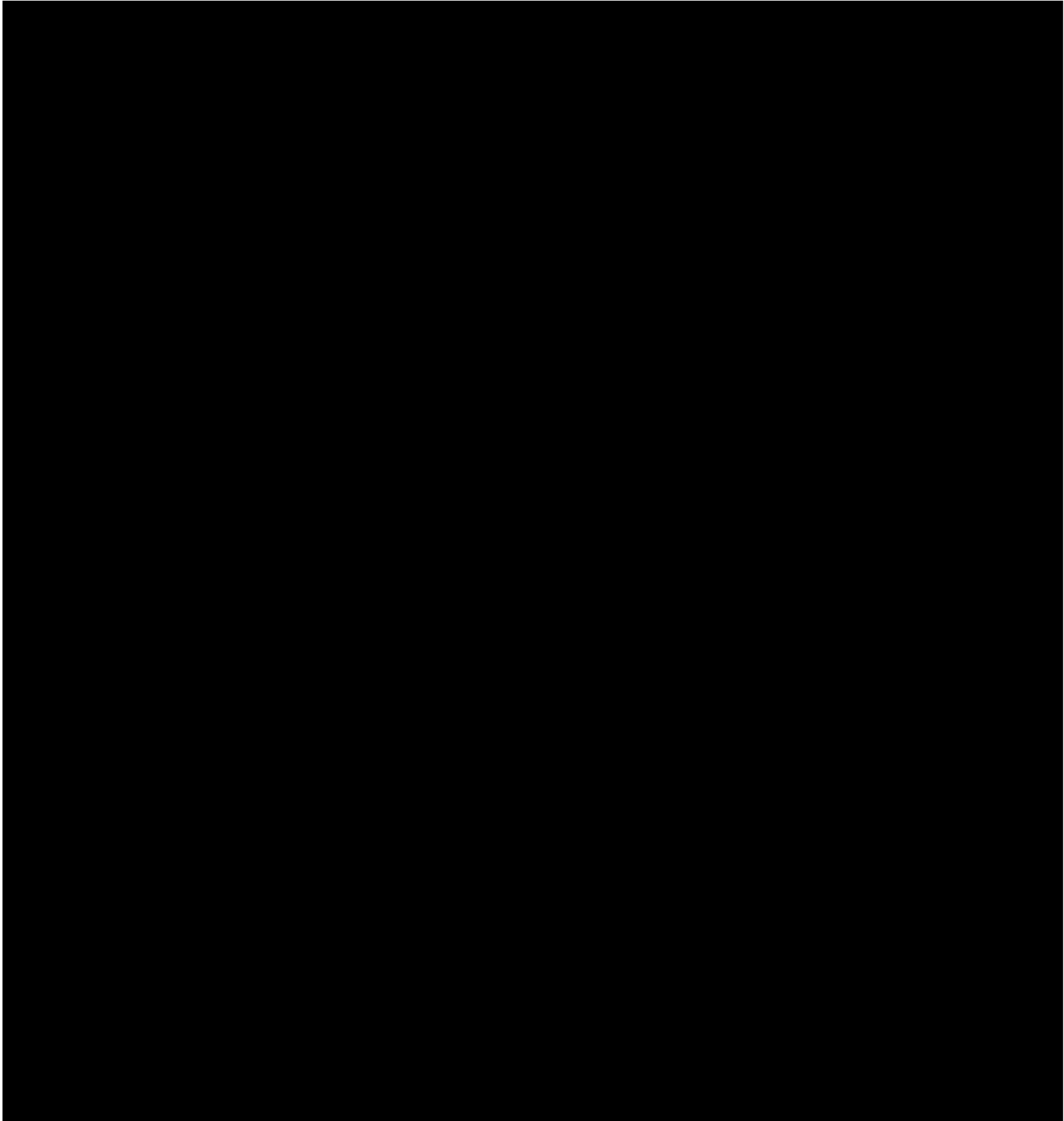


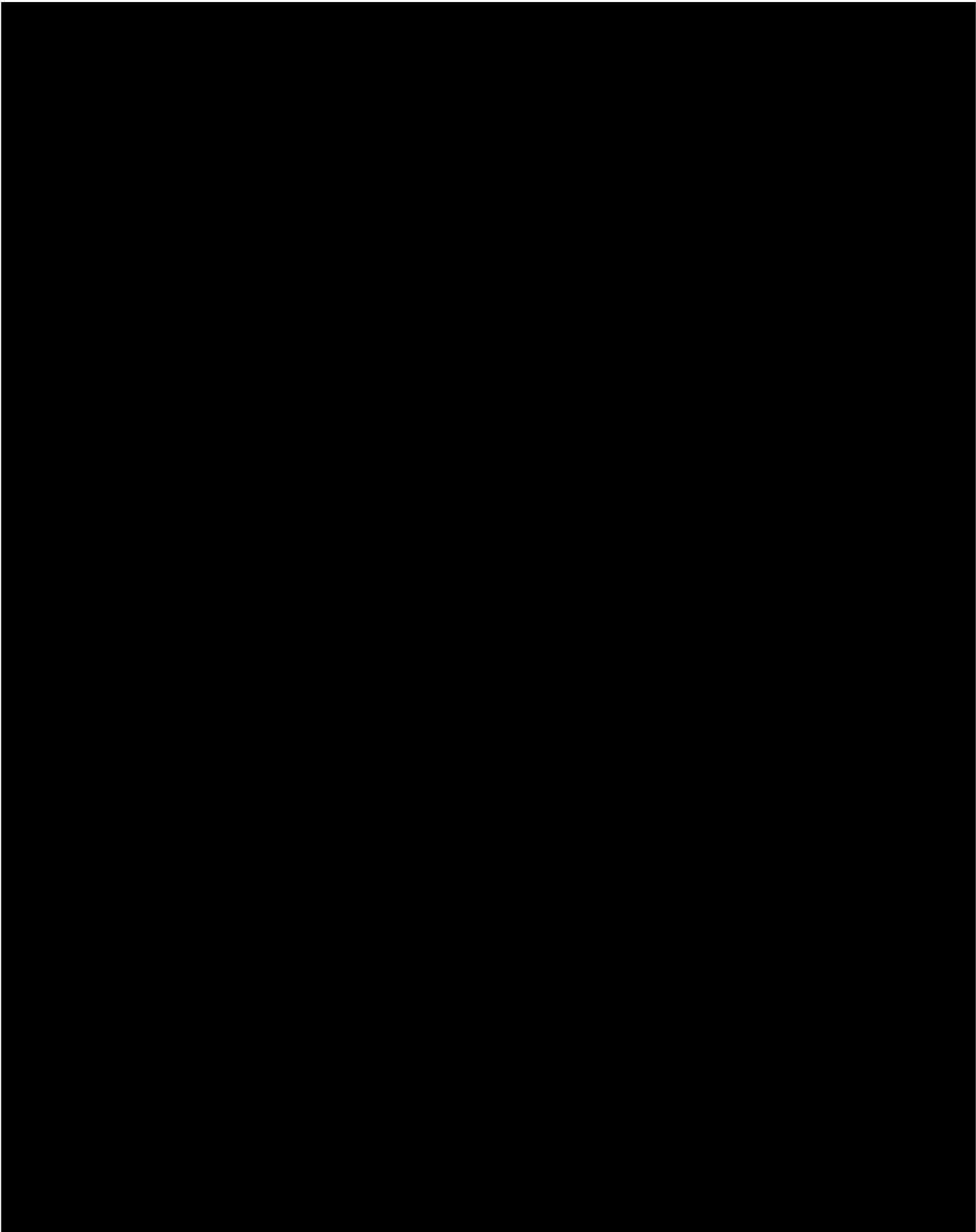


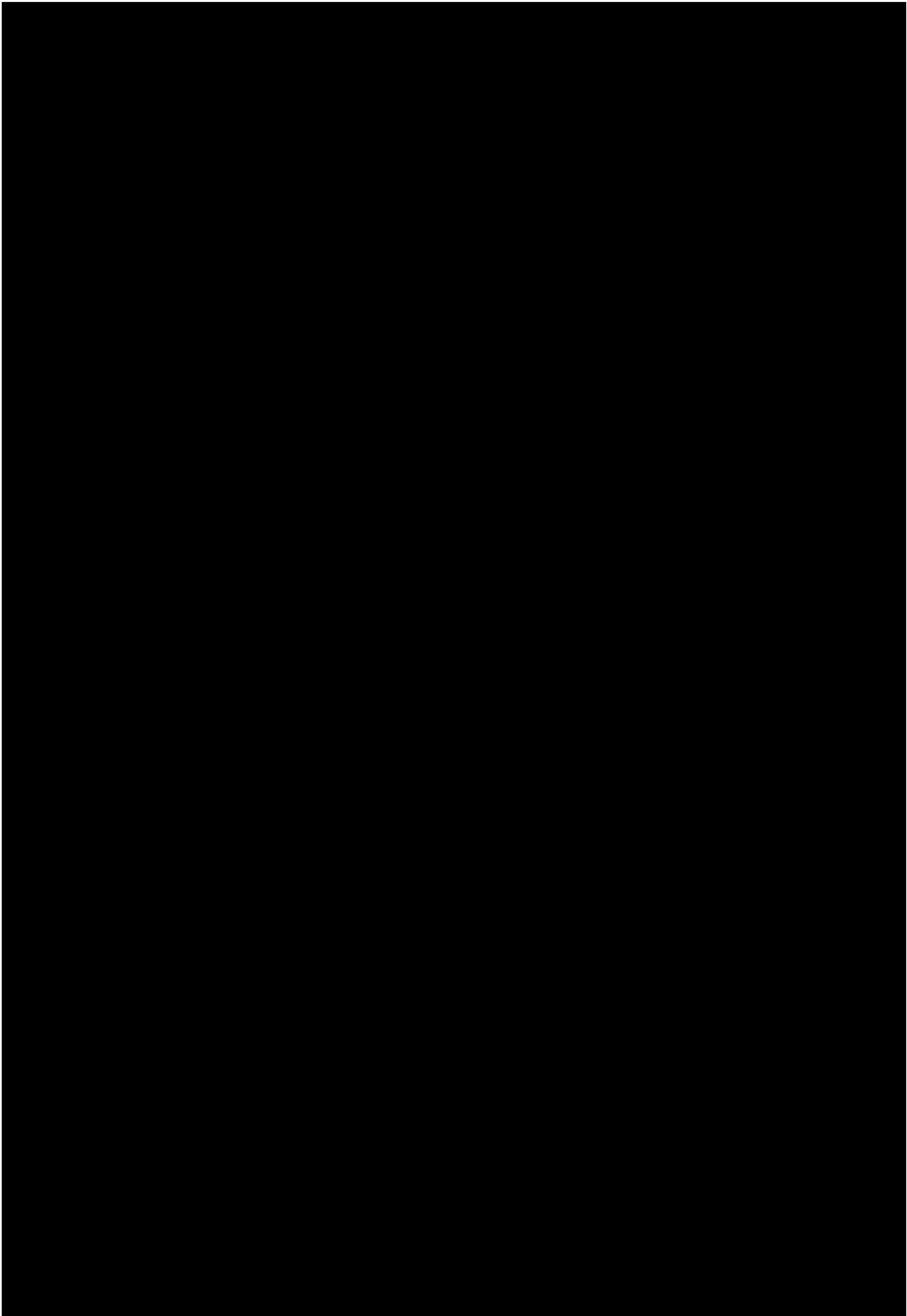


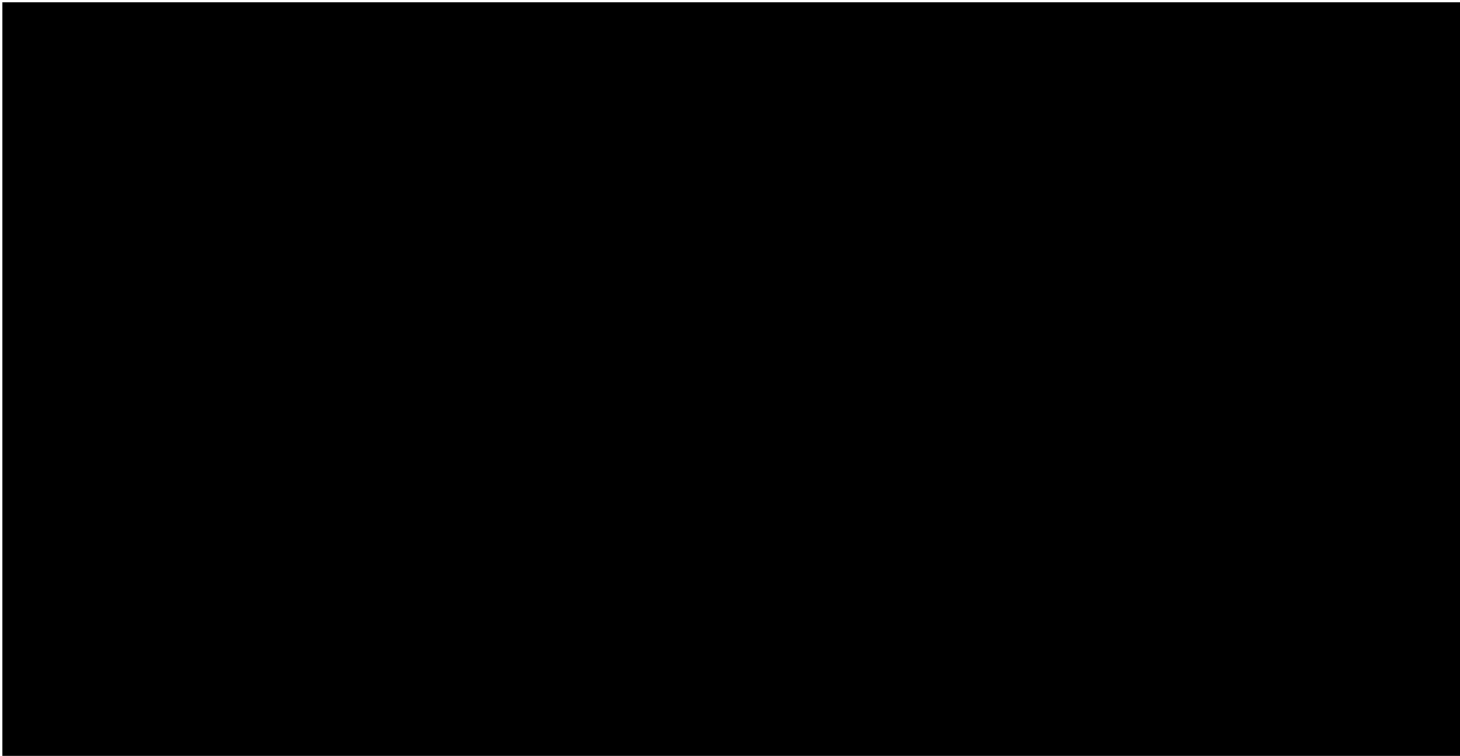
Oil Refinement [REDACTED]

STANDARD OPERATING PROCEDURES









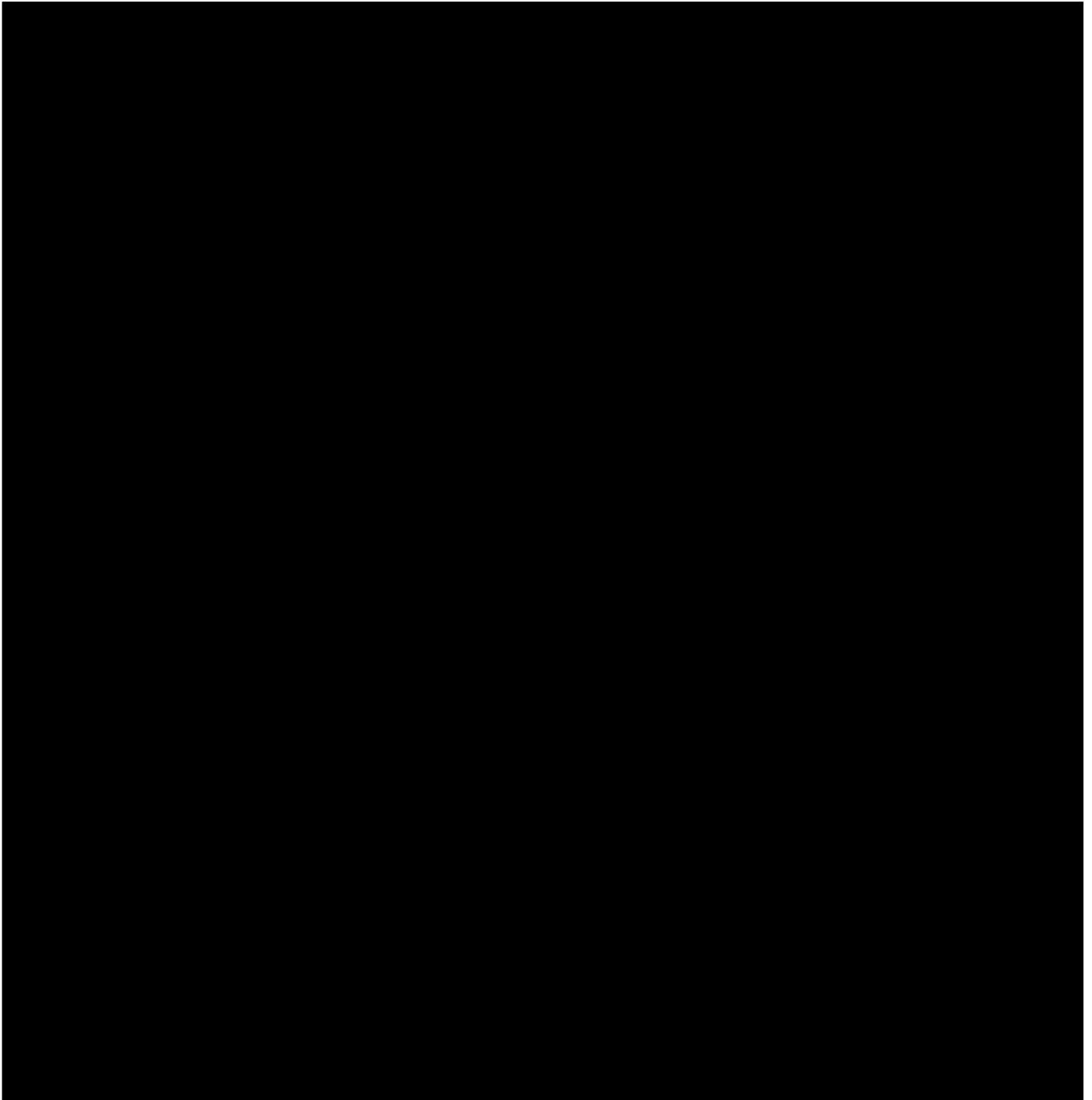


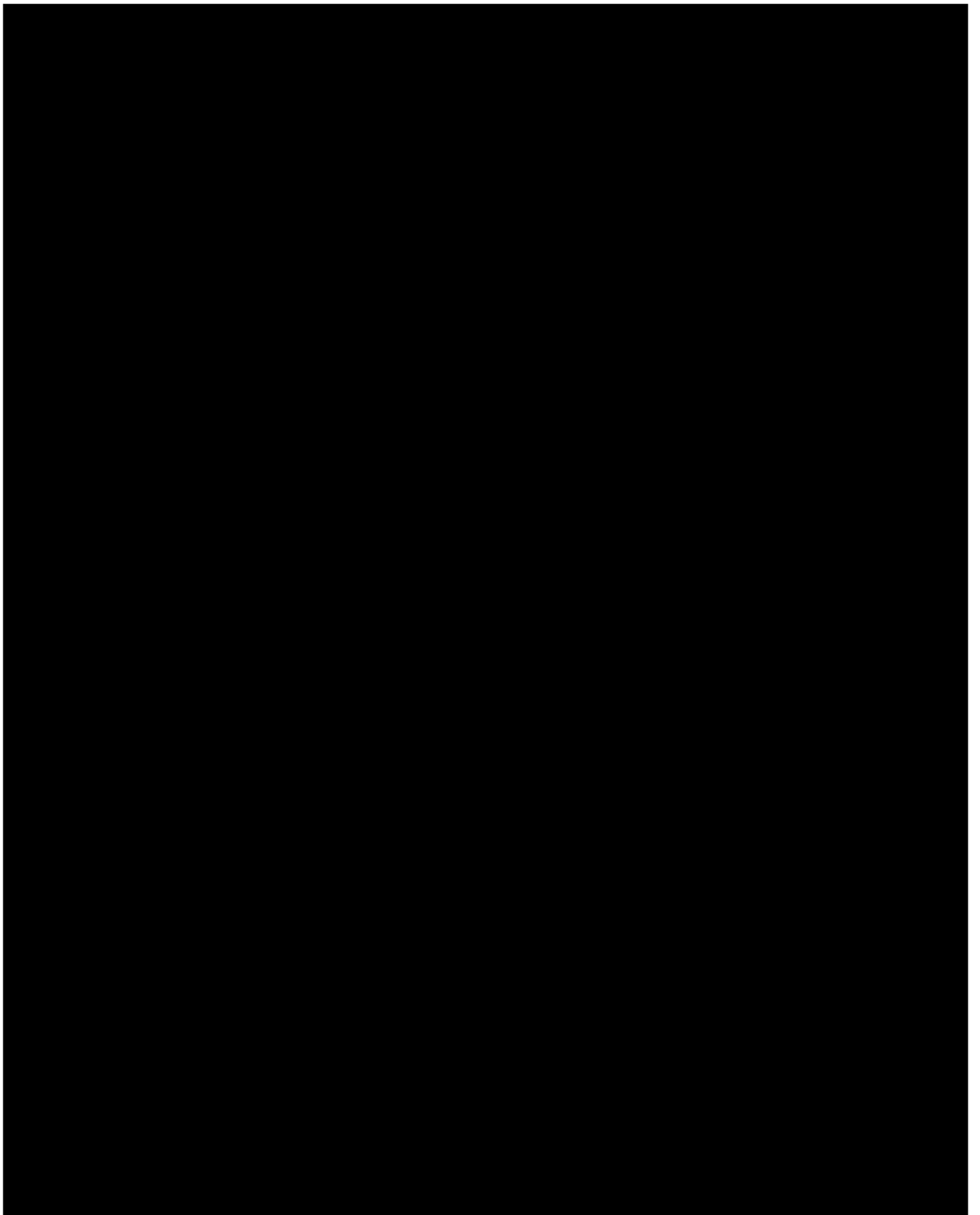
Solventless Hash Rosin - Pressing SOP

Life Elevated Processing

Department: Processing

Disclaimer: *Life Elevated Processing's Standards of Practice are subject to change. Be thorough and check your work.*





STEP 3: SUPER CRITICAL RUN

Prep

1. Check accumulators level; must be at 50% minimum to start any run
2. Reduce Accumulator pressure; **BEFORE EVERY RUN** you must ensure Co2 is cycled through the condenser with refrigeration **OFF** for 5 minutes
3. Close valve #1
4. Ensure pump is pressurized with Co2
5. Open valve #14
6. Turn ENABLE Co2 valve is **ON**
7. Open valves #15 and #25
8. On control panel;
 - a. Turn HYDRAULIC PUMP to **ON**
 - b. Turn HYDRAULIC ENABLE to **ON**
 - c. Adjust HYDRAULIC PRESSURE to 25%
 - d. Adjust HYDRAULIC FLOW to 50% increase to 80% when flow established
9. Cycle Co2 through condenser for 5 minutes
10. Turn ENABLE CHILLER VALVE to **ON**
11. Wait for accumulator pressure to fall below 300 PSI and temperature below 10 degrees F
12. Turn ENABLE CHILLER VALVE to **OFF**
13. Turn **OFF** the pump on control panel;
 - a. Turn HYDRAULIC ENABLE VALVE to **OFF**
 - b. Turn HYDRAULIC PUMP to **OFF**
 - c. Adjust HYDRAULIC FLOW to 0
 - d. Adjust HYDRAULIC PRESSURE TO 0
14. Turn ENABLE Co2 VALVE to **OFF**
15. Close valve #15

Start Run

1. Warm to 80 degrees, Cyclone & separator
2. Open valves #25 & #14
3. Close valve #15
4. Open valve #10 (side A) valve #11 (side B) to open flow path
5. Turn cyclone valve 1½ turns
6. Valve #7 & #8 closed
7. Open: valve #5 & #3 (Side A)
valve #6 & #4 (Side B)
8. Turn on Hydraulic Pump
9. Enable Hydraulic Valve
10. Turn Co2 **ON**
11. Set super critical A or B
12. Set Hydraulic Flow to 60 %
13. Set Hydraulic Pressure to 40%
14. Open valve #1
15. Increase flow to 100 percent once machine is running with no abnormalities.
16. Bump hydraulic pressure **gradually** two points at a time
17. Once extraction pressure is between 2,000 – 2,300 *slowly* open (crack) valve #8 (side A) or valve #7 (side B)
18. Turn on chiller at 2250 PSI in Extractor A or B depending on side run.
19. Cyclone needs to stay between 50 – 60 degrees (55 ideal) *The temperature will drop rapidly when the chiller is turned on. Carefully manage the dissent of the temperature in the cyclone when pressure is rising and chiller is on.*
Extractor performs best between **3,750 and 4,200 PSI** (hydraulic pressure usually between 74-82 PSI)
20. Adjust cyclone flow: **IN** for warmer **OUT** for cooler temperature

End Run

1. Close valve #1
2. Lower hydraulic pressure to 0 then flow to 0
3. Turn **OFF** Co2 button
4. Turn **OFF** HYDRAULICS ENABLED button
5. Turn **OFF** Hydraulic pump switch
6. Turn **OFF** SUPER CRITICAL button (Side A or B)
7. Start opening Hot/Cold valve (continue for recovery period)
8. Open valve #15 to relieve pressure on pump then close
9. Turn **OFF** chiller at 500 PSI
10. After Co2 recovery to accumulators close valve #7 for Side B valve #8 for Side A
11. Isolate the extractor before starting again;
 - a. Side B close valves #6 & #8
 - b. Side A close valves #3 & #5
12. Reset Side A or Side B temperatures on monitor
13. Vacuum and clean out vessel
14. Clean cyclone extraction point
15. If you plan to **shut down** (vent **OFF** to 0 PSI left in accumulators (open lids));
 - a. Side A open valve #34
 - b. Side B open valve #33
 - c. Open valve #29 **gradually**
16. If you plan to do another run

If gas is present in the accumulators it can be used from one extractor to the other. After Co2 recovery to accumulators has been completed.

Start from extractor being shut down; Fill extractor from Dewar make sure extractors are isolated and valve #29 is closed

1. Start Side A
2. Open valve #33
3. Slowly open valve #34

1. Start Side B
2. Open valve #34
3. Slowly open valve #33

1. Open Dewar gas valve
2. Open valve #23
3. Open valve #24
4. Slowly open valve #34 (Side A) valve #33 (Side B)
5. Need to be greater than 200 PSI

SUPER CRITICAL FLUSH

A super critical flush MUST be performed after every two runs

1. Turn on cyclone/separator heating jacket to 80 degrees
2. Close extractor chamber valves #3, #4, #5 and #6
3. Pressurize condenser, filter, cyclone/separator
 - a. Close valves #1, #14, #15 and #24
 - b. ENABLE Co2 valve *OFF*
 - c. Pump pressure to less than 200 PSI
 - d. Open Co2 gas supply on dewer
 - e. Slowly open valve #23
 - f. Slightly open valve #21 and bring pump pressure within +/- 100 PSI of accumulator
 - g. When pressure is equalized close valves #21 and #23
4. Open valve #1
5. Open valves #2, #7, #8, #10, #11 and #25
6. On monitor toggle EXTRACTOR A or EXTRACTOR B to super critical
7. Turn on hydraulic pump
8. Pump Co2 at 1,200 – 1,500 PSI and greater than 87 degrees for 10 – 15 minutes