January 13

8:16:07 · Start depressurizing (8:33PC)

8:16:41 · 1600psi 334.70 cc (Isco)

8:17:41 1500psi 335.68

8:24:14 1500psi 335.71

8:25:14 1250psi 338.78

8:25:49 1000psi 343.37

8:26:44 750psi 351.01

8:27:48 500psi 365.85 (and rising)

8:30:50 250psi 410.00 (-"-)

8:35:51 Pump backed off to about 110psi before hitting full volume.

8:39:57 · Wow - we had quite a sediment clog! A bunch of it blew out the vent line.

10:53 PC Added Oddi Pills to ice/water mix

By injecting water into the drain tube, it looks like we've got ~2.8cc tubing space

20100113 TempTest.txt Ω = .33°C

Batteries were off for this test

Data file 20100113TemptestIsco.txt has the air, growth bath + both growth chamber thermocouples

12:40:54 First Point in the small Polyscience Bath, which is set at 16°C

12:57:10 Air TC popped out, but I've put it back. Ω = 16.45°C

13:15:48 Ω = 16.47. Bump both down to 3.5°C

14:43:32 Ω = 3.77°C

14:57:09 Ω = 3.77°C

January 14

Star Oddi Pills set to go on at noon, then measure every 2 minutes

20100114 Emily.txt First Point: 10:29:53

10:35:47 · Evacuated the gas line and sample

10:39:26 Adding gas to sample

10:42:56 Gas Pressure at 1108.6psi Ω at 16.52°C We'll let the gas pressure equilibrate a bit.

11:20:11 Gas pressure at 1103psi, internal temperature has stabilized

11:47:29 Bled gas pressure down to 1050psi. Bath at 16.52°C

15:14:31 System at 1052.6psi, Bath at 16.55(Ω)

January 15

7:35:40 Heise at 1056psi, so I've brought the Isco to that level

7:36:41 Shut top valve on sample Isco at 362.79 Ω = 16.54°C

Switch Isco to inject at .15cc/min pressure dropped to 1044psi

Should be done injecting at 11:11am on my watch (10:47 on apple)

7:40 (8:05 PC) We're injecting at .15cc/min, 1600psi is our target, valve leading into sample is open Isco target is ≈ 334.08

8:55:16 Isco: 351.17, Pressure 1165psi

9:36:06 Isco: 345.06 1241psi

10:06:53 Isco 340.37 1307psi

11:02:41 Isco 332 1444 psi

11:06:16 Isco 331.48 1454 psi

11:14:21 330.32 1476 psi

11:23:27 328.91 1503 psi Ω = 16.58°C

11:27:39 328.18 1517 psi

11:43:30 325.88 1566 psi

11:46:06 325.50 1574

11:50:07 324.90 1587 psi

11:52:08 324.58 1594 psi

11:54:09 324.34 1600

12:19:49 323.81 Ω = 12.46°C

13:22:33 323.17 Ω = 7.71°C

Also added alcohol to the bath and water to the circulator

Now started running in constant pressure mode & Dropped Bath setpoints to 3.5°C

13:37:21 321.66 Ω=5.29
14:02:05 320.89 Ω=4.61
14:27:41 320.42 Ω=4.50
15:17:55 319.72 Ω=4.39
15:26:35 319.87 Ω=4.38 (3:26PC)
15:37:10 319.82 Ω=4.38

January 19

7:42:00 (7:53PC) Isco: 300.30cc
7:46:00 (7:57PC) Done adding bath alcohol
8:58:39 (9:10PC) Bath Ω=4.35°C
10:04:04 (10:16PC) Bath Ω=4.28°C Isco: 300.28cc
11:14:39 (11:27PC) Ω=4.34°C Isco: 300.24
12:14:44 (12:27PC) Ω=4.33°C Isco: 300.12cc
13:36:01 (1:48PC) Ω=4.31°C Isco 300.08cc
14:22:56 (2:35PC) Ω=4.32°C Isco 300.07cc

January 20

7:39:46 (7:54PC) Ω=4.30°C Isco 299.93cc
9:12:02 (9:27PC) Ω=4.34°C Isco 299.89cc
10:28:35 (10:44PC) Ω=4.32°C Isco 299.87cc
12:31:59 (12:47PC) Ω=4.35°C Isco 299.82cc
13:42:37 (1:58PC) Ω=4.31°C Isco 299.81cc

January 21

7:14:44 (7:32PC) Ω=4.31°C Isco 299.70cc
12:03:15 (12:22PC) Ω=4.35°C Isco 299.63cc
14:10:15 (2:29PC) Ω=4.31°C Isco 299.61cc

January 22

7:13:51 (7:36PC) Ω=4.34 Isco 299.51cc

9:12:43 Done adding bath alcohol.
13:55:18 (2:18PM) Ω=4.35 Isco: 299.29cc

January 29

6:32:33 (7:20PC) Ω=4.34 Isco: 296.78cc Bumped bath to 10°C
7:44:29 (8:32PC) Done finished refilling bath.
11:43:08 (12:32PC) Bumped bath to 16°C Ω=10.67 Isco: 296.93
12:08:54 (12:57PC) Ω=15.26 Isco: 296.99cc
12:11:25 297.00
12:18:27 297.02
12:27:33 297.11
12:33:02 297.30
12:37:36 298.60
13:52:46 301.76 Where did all that lost volume go?
The gas pressure is up to 1182psi, up from 1056psi on Jan 15.
Did we leak through the Quiesa valve?
13:58:20 302.07
14:43:11 304.23

February 1

6:47:06 (7:46PC) Isco: 320.52ml There's that lost volume!
7:14:21 (8:13PC) Time to depressurize

Isco:	1600 psi	320.96	Ω=16.71°C
	1500 psi	325.18	
	1250	340.18	
	1000	363.23	
	750	401.00	
	500	475.75	

Open top to depress. (Entire top cap exposed to air) Put star addi pills + thermocouples into growth bath.

8:16:06 (9:15 PC) Temperature Sensors in bath set at 16°C
11:04:04 (12:03 PC) Ω = 16.46 (Bath set for 16°C)