

This is an example of data taken by Zhichun On 9 October, 2015 for Star Anise

Date	Operators		Time
8/31/2015	Zhichun Zheng		13:15
Botanical Material	Duration	Cool Down	
star anise	5:30	4 min in microwave, 2 min countertop	
lid mass:	136.29	initial ice mass:	216.4
lid+ice mass:	352.69	final ice mass:	104.5
lid +remaining ice mass:	240.79		
apparatus +inner shield mass:	1084.23	botanical mass:	50.07
apparatus +inner shield w/botanical & solvent mass	before:	1152.36	botanical mass lost:
	after:	1137.93	%yield by mass
beaker mass:	125.99		1.18%
beaker+hydrosol mass:	250.9	hydrosol mass	124.91
vial mass:	3.33		
vial mass+oil mass :	3.92		
oil mass:	0.59		
Notes:	<p>20 ml water was added to the extractor and mixed with plant material. About 0.60 cm layer oil collected. Oil was transparent. A lot of oil stayed on ice core due to high melting point.</p>		
Botanical Description: (prior to extraction)	brown, frozen. Grinded into <3mm particles and mixed with 20 ml water.		
Botanical Description: (post extraction)	still moist.		

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Date	Operators		Time	
9/1/2015	Zhichun Zheng		13:22	
Botanical Material	Duration	Cool Down		
star anise	5:30	4 min in microwave, 7 min countertop		
lid mass:	136.35	initial ice mass:	181.66	
lid+ice mass:	318.01	final ice mass:	35.95	
lid +remaining ice mass:	172.3			
apparatus +inner shield mass:	1084.55	botanical mass:	50.02	
apparatus +inner shield w/botanical & solvent mass	before:	1162.89	botanical mass lost:	19.38
	after:	1143.51	%yield by mass	1.10%
beaker mass:	125.97			
beaker+hydrosol mass:	295.2	hydrosol mass	169.23	
vial mass:	3.3			
vial mass+oil mass :	3.85			
oil mass:	0.55			
Notes:	<p>30 ml water was added to the extractor and mixed with plant material. Opened the extractor after 4 min cool down, saw a lot of oil frozen on the ice core, therefore put it back for 7 extra min. Used some water to flush off the oil on ice cord. ~0.6 to 0.7 cm layer, slightly more than trial #1. Notes to self: maybe increase cooking time or increase amount of water add to the plant material next time.</p>			
Botanical Description: (prior to extraction)	brown, frozen. Grinded into <3mm particles and mixed with 30 ml water.			
Botanical Description: (post extraction)	slightly moist, mostly dry			

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Date	Operators		Time	
9/1/2015	Zhichun Zheng		14:14	
Botanical Material	Duration	Cool Down		
star anise	5:30	4 min in microwave, 2 min countertop		
lid mass:	136.7	initial ice mass:	179.73	
lid+ice mass:	316.43	final ice mass:	n/a	
lid +remaining ice mass:	ice dropped into beaker			
apparatus +inner shield mass:	1084.52	botanical mass:	50.07	
apparatus +inner shield w/botanical & solvent mass	before:	1183.76	botanical mass lost:	25.57
	after:	1158.19	%yield by mass	maybe about 2 %
beaker mass:	125.98			
beaker+hydrosol mass:	325.94	hydrosol mass	199.96	
vial mass:	3.33			
vial mass+oil mass :	n/a			
oil mass:	n/a			
Notes:	<p>50 ml water was added to the extractor and mixed with plant material. About 1.2 to 1.3 cm layer oil collected (which is twice the amount collected from trial #2. Oil was transparent. A lot of oil observed on the outside of beaker</p>			
Botanical Description: (prior to extraction)	brown, frozen. Grinded into <3mm particles and mixed with 50 ml water.			
Botanical Description: (post extraction)	still moist.			

This is an example of data taken by Zhichun On 9 October, 2015 for Star Anise

Date	Operators		Time	
10/9/2015	Zhichun Zheng		13:20	
Botanical Material	Duration	Cool Down		
star anise	5:30	4 min in microwave, 2 min countertop		
lid mass:	138.12	initial ice mass:	180.66	
lid+ice mass:	318.78	final ice mass:	17.78	
lid +remaining ice mass:	155.9			
apparatus +inner shield mass:		1088.18	botanical mass:	30.21
apparatus +inner shield w/botanical & solvent mass	before:	1167.71	botanical mass lost:	23.08
	after:	1144.63	%yield by mass	1.75%
beaker mass:		126		
beaker+hydrosol mass:		307.75	hydrosol mass	181.75
vial mass:		3.33		
vial mass+oil mass :		3.86		
oil mass:		0.53		
Notes:	<p>50 ml water was added to the extractor and mixed with plant material. A lot of oil ends up staying on the ice core. So I put the entire icecore in hydrosol.</p> <p>There were still a lot of oil in hydrosol but all broken into small droplets and hard to collect.</p>			
Botanical Description: (prior to extraction)	brown, frozen. Grinded into <3mm particles and mixed with 50 ml water.			
Botanical Description: (post extraction)	still moist.			