# Organoleptic Evaluation

# Fit vs Unfit

#### Rachel Sanderoff

Chemist Nonbeverage Products Laboratory

Title: Nov 15-4:20 PM (1 of 10)

### Sample #1

A few things to think about as you taste the sample...

- Could an average person mistake this sample for an alcoholic beverage?
  - Not whether or not you like it!
- You are not trying to find flavor characteritics or identify the flavor.
  - Simply, is it fit or unfit?

Title: Nov 15-4:20 PM (2 of 10)

## Sample #1

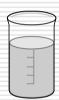
- This sample is actually an alcoholic beverage!
  - You just tasted a Grappa
- Tasting actual alcoholic beverages can retune your expectations.

Example: pepper flavor vs a pepper vodka

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## **Tasting Protocol**

 Samples with more than 15% alcohol (v/v) are diluted to that level with tap water.



- Dilution based on the upper end of the range for alcohol content in item 10 on form TTB F 5154.1.
- Samples that contain 15% alcohol (v/v) or less are tasted without dilution.
- Six or more panelists are required for organoleptic analysis.

Title: Nov 15-4:20 PM (4 of 10)

### Tasting Protocol

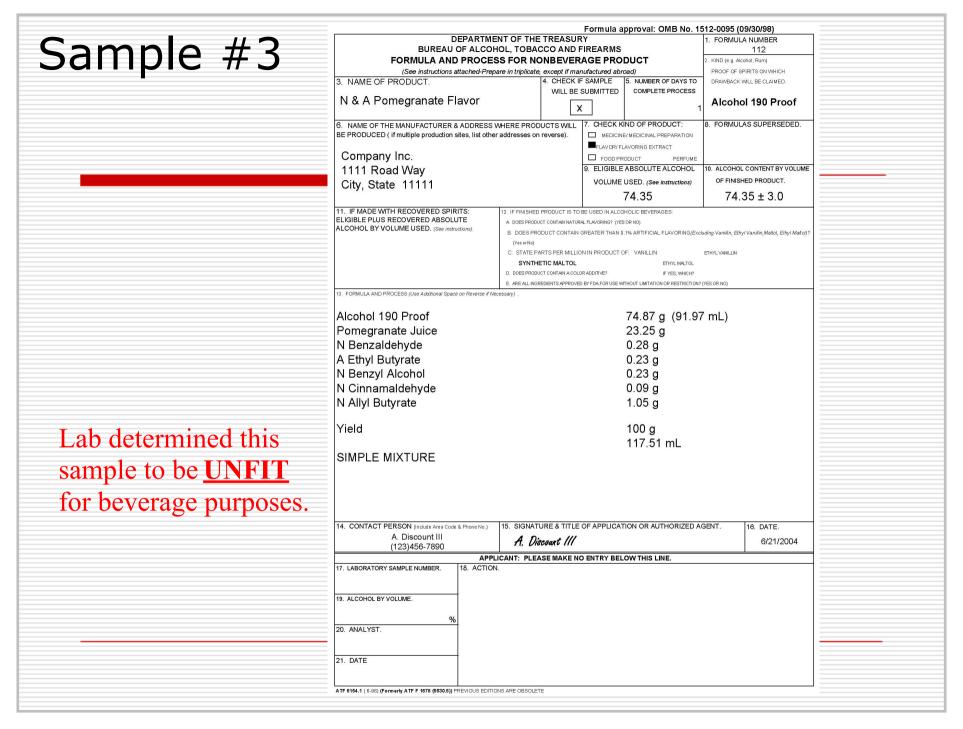
- Two-thirds of the panelists must agree that the sample is unfit for beverage purposes.
- Results of the taste panel are to be recorded in box 13\* of TTB Form 5154.1 with the following statement:

"This product was found to be unfit for beverage purposes. It was subjected to organoleptic analysis by a taste panel of \_\_ panelists, \_\_ of whom agreed on the determination."

\* This statement will be entered in box #18 under the new regulations.

Title: Nov 15-4:20 PM (5 of 10)

Sample #2	Formula approval: OMB No. 1512-0095 (09/30/90  DEPARTMENT OF THE TREASURY  1. FORMULA NUMB BUREAU OF ALCOHOL, TOBACCO AND FIREARMS  111						111	
Jailluic #Z	FORMULA AND PROCESS FOR NONBEVERAGE PRODUCT 2. KIND (e.g. Alcohol, Rum)							
	(See instructions attached-Prepare in triplicate, except if manufactured abroad)				PROOF OF SPIRITS ON WHICH			
-	<ol><li>NAME OF PRODUCT.</li></ol>		4. CHECK IF		5. NUMBER OF DAYS TO	DRAWBACK	K WILL BE CLAIMED.	
	Not Come - MONE		WILL BE S		COMPLETE PROCESS	210		
	Nat Grape WONF		Х	1	1	Alcohol 190 Proof		
	6. NAME OF THE MANUFACTURER &				(IND OF PRODUCT:	8. FORMUL	ILAS SUPERSEDED.	
	BE PRODUCED ( if multiple production sit	tes, list other addresses	on reverse).		MEDICINE/MEDICINAL PREPARATION			
	Company Inc				LAVORING EXTRACT			
	Company Inc.		☐ FOOD PE					
	1111 Road Way		9. ELIGIBLE ABSOLUTE ALCOHOL		10. ALCOHOL CONTENT BY VOLUME			
	City, State 11111		VOLUME	VOLUME USED. (See instructions)		SHED PRODUCT.		
	3.9, 2.2	71			29.45		.45 ± 1.5	
	44 IE MA DE MITH DECOMEDED CONDU							
	11. IF MADE WITH RECOVERED SPIRITELISIBLE PLUS RECOVERED ABSOLUT		12. IF FINISHED PRODUCT IS TO BE USED IN ALCOHOLIC BEVERAGES:  A DOES PRODUCT CONTAIN NATURAL FLAVORING? (VES OR NO)					
	ALCOHOL BY VOLUME USED. (See instrua	A DOLDIN	PRODUCT CONTAIN (					
		(Yes or N		OREATER ITAN				
		20	"/ E PARTS PER MILLIO	N IN PRODUCT	OF: VANILLIN	ETHYL VANILLIN		
			THETIC MALTOL		ETHYL MALTOL			
		D. DOES PR	ODUCT CONTAIN A COLO	OR ADDITIVE?	IF YES, WHICH?			
		120100000000	INGREDIENTS APPROVED	BY FDA FOR USE V	MTHOUT LIMITATION OR RESTRICTION?	(YES OR NO)		
	13. FORMULA AND PROCESS (Use Additional Space of	on Reverse if Necessary) .						
					05.4 (04.0			
	Alcohol 190 Proof				25.4 g (31.2 m	ıL)		
	Pomegranate Juice				10.4 g			
	Grape Juice 26.3 g				26.3 a			
	N Ethyl Propionate				0.6 g			
	N Trans 2-hexenal	0.6 g 31.5 g						
	Water Sugar							
					5.2 g			
T 1 1 . ! 1	Yield	100 g						
Lab determined	11014			100.63 mL				
Eac determined								
410, 2000, 10 40 100	SIMPLE MIXTURE							
this sample to be								
<b>FIT</b> for beverage								
<u>rrr</u> for beverage								
	14. CONTACT PERSON (Include Area Code 8	k Phone No.) 15. SIGN	ATURE & TITLE	OF APPLICA	TION OR AUTHORIZED AG	GENT.	16. DATE.	
purposes.	A. Discount III	A .	Discount III				6/21/2004	
r r	(123)456-7890				40030 0000 Per Wilde Ber 2000 10		5/2 1/255 1	
	APPLICANT: PLEASE MAKE NO ENTRY BELOW THIS LINE.  17. LABORATORY SAMPLE NUMBER. 18. ACTION.							
	17. LABORATORY SAMPLE NUMBER.	IO. ACTION.	N.					
	19. ALCOHOL BY VOLUME.							
	% 20. ANALYST.							
	21. DATE							
	ATF 5154.1 ( 6-86) (Formerly ATF F 1678 (5530.5)) PREVIOUS EDITIONS ARE OBSOLETE						,	



Formula approval: OMB No. 1512-0095 (09/30/98)											
	DEPARTME	1									
Sample #4	BUREAU OF ALCOH										
<b>Same #4</b>	FORMULA AND PROCES	1									
Sumple II	(See instructions attached-Prep	PIRITS ON WHICH									
	3. NAME OF PRODUCT.					MLL BE CLAIMED.					
	N . D	tte WONF WILL BE SUBMITTED COMPLETE PROCESS			Alcohol 190 Proof						
	Nat Pomegranate WONF										
	6. NAME OF THE MANUFACTURER & ADDRESS WHERE PRODUCTS WILL 7. CHECK KIND OF PRODUCT: 8. FORMULAS: BE PRODUCED (if multiple production sites, list other addresses on reverse).										
	BE PRODUCED ( if multiple production sites, list other	r addresses on reverse).									
	0		500000000000000000000000000000000000000	OR/FLAVORING EXTRACT OD PRODUCT PERFUME							
	Company Inc.										
	1111 Road Way			CONTENT BY VOLUME							
	City, State 11111		USED. (See instructions)	OF FINISH	IED PRODUCT.						
	3.91			39.60	39 6	30 ± 1.5					
	11. IF MADE WITH RECOVERED SPIRITS:						-				
	ELIGIBLE PLUS RECOVERED ABSOLUTE	12. IF FINISHED PRODUCT IS TO									
	ALCOHOL BY VOLUME USED. (See instructions).	A DOES PRODUCT CONTAIN NATURAL FLAVORING? (YES OR NO)  B. DOES PRODUCT CONTAIN GREATER THAN 0.1% ARTIFICIAL FLAVORING (Excluding Vanillin, Ethyl Vanillin, Maitol, Ethyl Maitol)?									
		(Yes or No)	OKE TEK TIME		ang ranin, Enj	Transmi, water, Engineery.					
		C. STATE PARTS PER MILLI	ON IN PRODUCT O	F: VANILLIN	ETHYL VANILLIN						
		SYNTHETIC MALTOL		ETHYL MALTOL							
		D. DOES PRODUCT CONTAIN A COL	OR ADDITIVE?	IF YES, WHICH?							
			D BY FDA FOR USE WI	THOUT LIMITATION OR RESTRICTION? (	(YES OR NO)		_				
	13. FORMULA AND PROCESS (Use Additional Space on Reverse if Ne	ecessary) .									
	Alcohol 190 Proof			33.68 g (41.37	mL)						
	Pomegranate Juice	Pomegranate Juice 26.12 g Citric Acid 3.13 g Sugar 5.39 g									
	Citric Acid										
	Sugar										
				<del>-</del>							
	N Ethyl Butyrate 0.15 g										
	N Cis 3-hexenyl 0.19 g										
Lab determined	Water 31.34 g										
Lau ucteriiiicu	Video 51.5 Fg										
.1 . 1 . 1	Yield 100 a										
this sample to be											
uns sample to be	99.25 mL										
DID C. 1.	SIMPLE MIXTURE										
<b>FIT</b> for beverage											
<u> </u>											
10111100000											
purposes.											
1 1											
	14. CONTACT PERSON (Include Area Code & Phone No.)	15. SIGNATURE & TITLE	OF APPLICAT	ION OR AUTHORIZED AG	GENT.	16. DATE.					
	A. Discount III	A. Discourt III				6/21/2004					
	(123)456-7890	=									
	APPL 17. LABORATORY SAMPLE NUMBER. 18. ACTION	-									
	17. EABOTORY SAINT EE NOMBER.	••									
	%										
	20. ANALYST.										
	21. DATE										
	ZI, DAIE										
				1							

#### In Conclusion...

When tasting for fitness remember...

- Could the average person mistake the sample for an alcoholic beverage?
- Is it fit or unfit? Not whether you like it or not.

\*\* Even if you conduct your own taste panel and include the statement in box #13 - STILL SEND US A SAMPLE!! \*\*

Title: Nov 15-4:20 PM (9 of 10)

# Any Questions??

#### Form 5154.1 Resources

- Drawback Tutorial
- Calculation Worksheets
- Pay.gov

For more information go to <a href="https://www.ttb.gov/ssd">www.ttb.gov/ssd</a>



240-264-1672