FSHN 381 NEW Recipe Form

Project: High-fiber muffin experiment

Date: 10/6/2010

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Recipe Name: Okara Muffin

Serving Size (g): 75

Number of Servings: 12

Serving Size (cup, tsp, etc): <u>1 muffin</u>

Ingredients List

Ingredient	Weight (grams)	Household Measurement (cup, tsp, etc)
Okara	340	2 cup
All purpose flour, sifted	250	2 cup
Granulated sugar	50	4 Tbsp
Baking powder	19.2	2 Tbsp
Salt	4.8	¹⁄₂ tsp
Egg, medium	50	1
Canola oil	40	4 Tbsp
Low-fat milk	400	2 cup
Granulated sugar Ground cinnamon Milk chocolate chips	26 1 12	2 Tbsp ¹ ⁄2 tsp 24 mini chips

Procedure:

1. Preheat oven to 425°F.

2. Put 12 liners into a muffin pan.

3. Make a thin layer of wet okara on a plate and microwave it for 5 minutes

on high. Take it out, spread it out with a spoon, and microwave it

for additional 3 minutes. Then take it out, spread it out with a spoon, and

microwave it for final 3 minutes. Okara should look completely dry.

4. Grind dried okara using a food processor for 5 min. Ground okara should

look powdery.

5. Sift all the dry ingredients (ground okara, flour, sugar, baking powder, and

salt) into the mixing bowl.

6. In a separate bowl, beat one egg well.

7. Add canola oil and low-fat milk to the egg and beat until well blended.

8. Pour the liquid ingredients into the dry ingredients, add milk chocolate

chips, and mix just enough to moisten all ingredients. The batter will look

lumpy, but no dry flour will show.

9. Mix ¹/₂ tsp of ground cinnamon and 2 Tbsp of sugar in a separate bowl.

10. Scoop a spoonful of batter from the mixing bowl. Be sure to get enough

batter at one time to fill the muffin cup slightly more than half full. Sprinkle

a mixture of ground cinnamon and sugar on top of batter.

11. Repeat this procedure until all the muffin batter is used. Avoid stirring the batter when spooning batter from the bowl.

12. Bake at 425 ° F for 5 minutes. Muffins should look larger and white in color. Then lower the oven temperature to 375° F and bake for additional 15 minutes, until a toothpick inserted into a muffin comes out clean. The tops should look golden brown.

13. Remove muffins from pan as soon as they are taken from the oven.

14. Serve while hot.

Sensory Evaluation Results:

Okara muffins had acceptable outer appearance and aroma for most

panelists; however, the taste, sweetness, and texture of okara muffins were

not acceptable to some panelists because of bland taste and dense or doughy

texture. Some panelists liked the sweetness of okara muffins because they

like something with mild sweetness. For those who want muffins to be

sweet, addition of sugar or a sweet flavoring may make okara muffins more

acceptable.

Any other comments: Okara muffins have mild okara flavor and are not very sweet. For those who

like mild sweetness, it can be a good dessert as it is!

Nutrition Facts Serving Size (75g) Servings Per Container Amount Per Serving				
Calories 180 Calories from Fat 45				
		% Da	aily Value*	
Total Fat 5g			8%	
Saturated Fat 1g 4%				
Cholesterol 20mg7%				
Sodium 180mg 8 %				
Total Carbohydrate 29g10%				
Dietary Fiber 2g 7%				
Sugars 9g				
Protein 5g				
Vitamin A 29	/) (itop		
			nin C 0%	
Calcium 10%	0 •	Iron 8	3%	
*Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs: Calories: 2,000 2,500				
Total Fat Saturated Fat Cholesterol Sodium Total Carbohydra Dietary Fiber Calories per gra Fat 9 • Ca	Less than Less than Less than Less than ate	65g 20g 300mg 2,400mg 300g 25g	80g 25g 300mg 2,400mg 375g 30g	