

	Section Title	SPEC SHEET GRADE A VERY DARK PURE MAPLE SYRUP	2388 40th Street Cumberland, WI 54829
	Product Information		Date of Revision
	Document # FSP 2.13		02/18/2019
		Food Safety Plan Manual	

General Product Information:

Description:	Grade A Very Dark Pure Maple Syrup (formerly Grade B)
Ingredients	100% Pure Maple Syrup
Country of origin	United States of America
Allergens	None
GMO status	None
Physical properties	Color: Dark brown viscous liquid with “good uniform color, good flavor and odor. It is free from cloudiness, turbidity, sediment and is clean” (from USDA Agricultural MS grading regulations) Flavor: Very strong maple flavor Light Transmission: <35.0°Tc
Method of Storage and Distribution:	Sealed bottles can be stored at ambient (about 60°F – 75°F) temperatures. Refrigerate after opening (40-45°F).
Shelf-life:	3 years after packaging in glass 2 years after packing in plastic
Traceability information:	Expiration Date Stamp and Lot Code on each bottle. Corresponding Lot Code stamped on each case.

Technical Product Information:

Chemical properties	<p>Pure maple syrup consists primarily of sugars—90 to 100% sucrose and 0 to 10% glucose. Other chemical components of maple syrup include amino acids, proteins, organic acids and trace levels of vitamins. A large amount of mineral material has been found dissolved in maple syrup with potassium and calcium being the most prevalent.</p> <table border="1"> <thead> <tr> <th>Minerals</th> <th>ppm</th> </tr> </thead> <tbody> <tr><td>Potassium</td><td>1300-3900</td></tr> <tr><td>Calcium</td><td>400-2800</td></tr> <tr><td>Magnesium</td><td>12-360</td></tr> <tr><td>Manganese</td><td>2-220</td></tr> <tr><td>Sodium</td><td>0-6</td></tr> <tr><td>Phosphorus</td><td>79-183</td></tr> <tr><td>Zinc</td><td>0-90</td></tr> <tr><td>Copper</td><td>0-2</td></tr> <tr><td>Tin</td><td>0-33</td></tr> <tr><td>Lead</td><td>0-0.25</td></tr> <tr><td>Cadmium</td><td><0.02</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Component</th> <th>Quantity</th> </tr> </thead> <tbody> <tr><td>Sucrose</td><td>68.0%</td></tr> <tr><td>Glucose</td><td>0.43%</td></tr> <tr><td>Fructose</td><td>0.30%</td></tr> <tr><td>Water</td><td>31.7%</td></tr> <tr><td>Malic acid</td><td>0.47%</td></tr> <tr><td>Fumaric acid</td><td>0.004</td></tr> <tr><td>Calcium</td><td>775mg/L</td></tr> <tr><td>Magnesium</td><td>167mg/L</td></tr> <tr><td>Potassium</td><td>2026mg/L</td></tr> </tbody> </table> <p><i>North American Maple Syrup Producers Manual, 2nd ed.; Bulletin 856, The Ohio State University Agricultural Extension, Columbus, Ohio, 2006: Appendix 2.</i></p> <p><i>Perkins, Van den Berg (2009). Maple Syrup-Production, Composition, Chemistry and Sensory Characteristics. Advances in Food and Nutrition Research, Vol 56.</i></p>	Minerals	ppm	Potassium	1300-3900	Calcium	400-2800	Magnesium	12-360	Manganese	2-220	Sodium	0-6	Phosphorus	79-183	Zinc	0-90	Copper	0-2	Tin	0-33	Lead	0-0.25	Cadmium	<0.02	Component	Quantity	Sucrose	68.0%	Glucose	0.43%	Fructose	0.30%	Water	31.7%	Malic acid	0.47%	Fumaric acid	0.004	Calcium	775mg/L	Magnesium	167mg/L	Potassium	2026mg/L
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Micro-biological properties	<p>Yeasts (CFU/g) <5 Molds (CFU/g) <5 Aerobic mesophilic bacteria (CFU/g) <150 Bacillus cereus (CFU/g) <25 Total Coliforms (CFU/g) <10 Clostridium spp (CFU/g) not detected Staphylococcus aureus (CFU/g) <10</p> <p><i>General Characteristics of Pure Maple Syrup</i> Source: Federation des producteurs acericoles du Quebec (Industry Sheet 2014) http://mapleproductsfromquebec.com</p>																																												



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Nutrition	Proximates & Others	Value per 100g (unrounded)	Value per 39.78 g (30ml) serving size (Nutritional Facts)	Sources: USDA Food Composition Databases (https://ndb.nal.usda.gov/ndb/search/list), USDA National Nutrient Database for Standard Reference 28 slightly revised May 2016 Software v.2.6.1 & Canadian Nutrient File (CNF) , https://food-nutrition.canada.ca/cnf-fce/index-eng.jsp Canadian Nutrient File, 2015	
	Calories	270.00	110		
	Carbohydrates (g)	66.89	27g, 10%		
	Total Fiber (g)	0	0, 0%		
	Total Sugars (g)	59.92	24 g, 48%		
	Total Fat (g)	0.035	0g, 0%		
	Saturated Fat (g)	0.007	0g, 0%		
	Monounsaturated Fat (g)	0.011	0g, 0%		
	Polyunsaturated Fat (g)	0.017	0g, 0%		
	Trans Fat (g)	0	0g, 0%		
	Protein (g)	0.04	0 g, 0%		
	Water/Moisture (g)	32.15	12.79		
	Cholesterol (mg)	0	0		
	Ash (g)	0.71	0.28		
		Vitamins & Minerals	Value per 100g (unrounded)		Value per 39.78 g (30ml) serving size (Nutritional Fact)
		Sodium (mg)	12 mg		5 mg, 0%
		Vitamin D (mg)	0 mg		0 mg, 0%
		Calcium (mg)	73 mg		29 mg, 2%
		Iron (mg)	0.11mg		0 mg, 0%
		Potassium (mg)	225 mg		90 mg, 2%
	Thiamine B1 (mg)	0.066 mg	0.026 mg, 2%		
	Riboflavin B2 (mg)	1.27 mg	0.51 mg, 40%		
	Niacin B3 (mg)	0.081 mg	0 mg, 0%		
	Folate (mg)	0 mg	0 mg		
	Folic Acid (mg)	0 mg	0 mg		
	Vitamin A (mg)	0 mg	0 mg		
	Vitamin C (mg)	0 mg	0 mg, 0%		
	Total Sugar Alcohols (g)	0 g	0 g, 0%		
	Zinc (mg)	1.47 mg	0.5 mg, 5%		
	Manganese (mg)	2.9 mg	1.16 mg, 50%		
Preservative:	NONE				
Brix Density:	67±1 at 68°F				
Water activity (aw):	0.87-0.88				
pH:	5 – 6.5%				

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HISTORY OF CHANGES:

Revision Date:	Nature of Change:	Approved/Verified By
02/18/2019	<ul style="list-style-type: none"> Updated nutritional information 	ca
01/24/2019	<ul style="list-style-type: none"> Added 5 fl. oz to serving size; format edits 	ca
06/25/2018	<ul style="list-style-type: none"> Verified and updated nutritional from referenced sites 	ca
05/31/2017	<ul style="list-style-type: none"> New SOP Format 	ca