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|  | Section Title | SPEC SHEET GRADE A DARK PURE MAPLE SYRUP | 2388 40th Street Cumberland, WI 54829 |
| | Product Information | | Date of Revision |
| | Document # FSP 2.12 | Food Safety Plan Manual | 02/15/2019 |
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General Product Information:

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|-------------------------------------|--|
| Description: | Grade A Dark with Robust Taste Pure Maple Syrup |
| Ingredients | 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: Robust or strong maple flavor Light Transmission: 25-50°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). Long Term Storage: Keep in a cool, dry place. Freezing will not harm syrup. |
| 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% fructose/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" data-bbox="381 1102 812 1549"> <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" data-bbox="1023 1171 1380 1543"> <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 style="text-align: right;"><i>North</i></p> <p><i>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 |
|-----------------------------|--|----------|-----|-----------|-----------|---------|----------|-----------|--------|-----------|-------|--------|-----|------------|--------|------|------|--------|-----|-----|------|------|--------|---------|-------|-----------|----------|---------|-------|---------|-------|----------|-------|-------|-------|------------|-------|--------------|-------|---------|---------|-----------|---------|-----------|----------|
| | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 style="text-align: right;"><i>General Characteristics of Pure Maple Syrup</i> <i>Source: Federation des producteurs acericoles du Quebec (Industry Sheet 2014)</i> 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 |
|----------------|--|----------------------|
| 2/15/2019 | <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 | 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 |