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|--|---------------------|---|--|
|  | Section Title       | <b>SPEC SHEET</b><br><b>GRADE A DARK</b><br><b>PURE MAPLE SYRUP</b> | 2388 40th Street<br>Cumberland, WI 54829 |
|  | Product Information |   | Date of Revision                         |
|  | Document # FSP 2.12 | Food Safety Plan Manual   | 07/16/2021                               |
|  |                     |   |  |

**General Product Information:**

|                                     |  |
|-------------------------------------|--|
| Description:                        | Grade A Dark with Robust Taste Pure Maple Syrup  |
| Ingredients                         | Pure Maple Syrup   |
| Country of origin                   | United States of America   |
| Allergens                           | None   |
| GMO/BE status                       | None   |
| Physical properties                 | <b>Color:</b> 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)<br><b>Flavor:</b> Robust or strong maple flavor<br><b>Light Transmission:</b> 25-50°Tc |
| Method of Storage and Distribution: | Sealed bottles can be stored at ambient (about 60°F – 75°F) temperatures.<br>Refrigerate after opening (40-45°F).<br>Long Term Storage: Keep in a cool, dry place. Freezing will not harm syrup.   |
| Shelf-life:                         | 3 years after packaging in glass<br>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>&lt;0.02</td></tr> </tbody> </table> <table border="1" data-bbox="1023 1171 1380 1549"> <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;">North</p> <p><i>American Maple Syrup Producers Manual, 2<sup>nd</sup> 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 |
|-----------------------------|--|----------|-----|-----------|-----------|---------|----------|-----------|--------|-----------|-------|--------|-----|------------|--------|------|------|--------|-----|-----|------|------|--------|---------|-------|-----------|----------|---------|-------|---------|-------|----------|-------|-------|-------|------------|-------|--------------|-------|---------|---------|-----------|---------|-----------|----------|
|                             | 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) &lt;5<br/> Molds (CFU/g) &lt;5<br/> Aerobic mesophilic bacteria (CFU/g) &lt;150<br/> Bacillus cereus (CFU/g) &lt;25<br/> Total Coliforms (CFU/g) &lt;10<br/> Clostridium spp (CFU/g) not detected<br/> Staphylococcus aureus (CFU/g) &lt;10</p> <p style="text-align: right;"><i>General Characteristics of Pure Maple Syrup</i><br/> Source: Federation des producteurs acericoles du Quebec (Industry Sheet 2014)<br/> <a href="http://mapleproductsfromquebec.com">http://mapleproductsfromquebec.com</a></p>   |          |     |           |           |         |          |           |        |           |       |        |     |            |        |      |      |        |     |     |      |      |        |         |       |           |          |         |       |         |       |          |       |       |       |            |       |              |       |         |         |           |         |           |          |



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|                                   |                                |                                   |  |  |   |
|-----------------------------------|--------------------------------|-----------------------------------|--|--|---|
| Nutrition                         | <b>Proximates &amp; Others</b> | <b>Value per 100g (unrounded)</b> | <b>Value per 39.78 g (30ml) serving size (Nutritional Facts)</b> | Sources: <a href="#">USDA Food Composition Databases</a> ( <a href="https://ndb.nal.usda.gov/ndb/search/list">https://ndb.nal.usda.gov/ndb/search/list</a> ), USDA National Nutrient Database for Standard Reference 28 slightly revised May 2016 Software v.2.6.1 & <a href="#">Canadian Nutrient File (CNF)</a> , <a href="https://food-nutrition.canada.ca/cnf-fce/index-eng.jsp">https://food-nutrition.canada.ca/cnf-fce/index-eng.jsp</a> 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   |  |   |
|                                   |                                | <b>Vitamins &amp; Minerals</b>    | <b>Value per 100g (unrounded)</b>                                |  | <b>Value per 39.78g (30ml) serving size (Nutritional Facts)</b> |
|                                   |                                | Sodium (mg)                       | 12 mg  |  | 5 mg, 0%  |
|                                   |                                | Vitamin D (mg)                    | 0 mg   |  | 0 mg, 0%  |
|                                   |                                | Calcium (mg)                      | 73 mg  |  | 30 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%   |  |   |
|                                   | Magnesium (mg)                 | 21 mg                             | 8 mg, 2%   |  |   |
|                                   | 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)                      | .7 mg                             | 0.3 mg, 2%   |  |   |
|                                   | Manganese (mg)                 | 2.3 mg                            | .9 mg, 40%   |  |   |
| Preservative:                     | NONE                           |                                   |  |  |   |
| Brix Density:                     | 67±1 at 68°F                   |                                   |  |  |   |
| Water activity (a <sub>w</sub> ): | 0.87-0.88                      |                                   |  |  |   |
| pH:                               | 5 – 6.5%                       |                                   |  |  |   |

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|  |                     |   | Food Safety Plan Manual                  |

HISTORY OF CHANGES:

| Revision Date: | Nature of Change:   | Approved/Verified By |
|----------------|---|----------------------|
| 07/16/2021     | <ul style="list-style-type: none"> <li>verified</li> </ul>  | ca                   |
| 05/21/2020     | <ul style="list-style-type: none"> <li>Added not Bioengineered and updated calcium per serving</li> </ul> | ca                   |
| 06/24/2019     | <ul style="list-style-type: none"> <li>verified</li> </ul>  | ca                   |
| 2/15/2019      | <ul style="list-style-type: none"> <li>Updated nutritional information</li> </ul>                         | ca                   |
| 01/24/2019     | <ul style="list-style-type: none"> <li>Added 5 fl. oz to serving size; format</li> </ul>                  | ca                   |
| 06/25/2018     | <ul style="list-style-type: none"> <li>Verified and updated nutritional from referenced sites</li> </ul>  | ca                   |
| 05/31/2017     | <ul style="list-style-type: none"> <li>New SOP Format</li> </ul>  | ca                   |