

Table S1. Results of the metals content in wine samples ($n = 3; k = 2, \alpha = 0.05$).

| N _{sample} | Grape Type | Region of Poland | Location [Mas] | Color | Metal Content (µg/L) or (mg/L) /Isotope Mass (amu) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------|------------------|----------------|-------|--|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|--------------|--------------|------------|----------|---------------|-------------|-------------|------------|
| | | | | | [µg/L] | | | | | | | | | | | | | | | | | | | | | | [mg/L] | | | | | | | |
| | | | | | Ag 107 | Al 27 | As 75 | Zr 90 | Ba 138 | Bi 209 | Cd 111 | Co 59 | Cr 52 | Cu 63 | Fe 56 | Hg 201 | V 51 | Li 7 | Mo 98 | Na 23 | Ni 60 | Pb 206 | Sb 121 | Se 78 | Sn 115 | Sr 88 | Ti 47 | Tl 205 | Mg 25 | K 41 | Mn 55 | B 10 | Zn 64 | Ca 40 |
| 1W | Solaris | W | 125 | w | 4.92 ± 0.15 | 206.1 ± 7.8 | 290.5 ± 28 | 10.91 ± 0.40 | 65.62 ± 1.12 | 456.1 ± 12.3 | 1.05 ± 0.16 | 2.05 ± 0.30 | 16.32 ± 0.75 | 396.2 ± 11.8 | 424.1 ± 12.0 | 0.51 ± 0.091 | 15.31 ± 0.45 | 1.68 ± 0.20 | 39.11 ± 1.13 | 170.3 ± 7.8 | 87.21 ± 1.47 | 23.51 ± 0.43 | 13.21 ± 0.34 | 139.1 ± 2.4 | 200.2 ± 7.9 | 126.1 ± 2.4 | 46.91 ± 1.1 | 2.37 ± 0.31 | 84.8 ± 1.5 | 422 ± 12 | 0.506 ± 0.091 | 2.94 ± 0.17 | 4.95 ± 0.30 | 43.4 ± 1.1 |
| 2W | Solaris | W | 125 | w | 4.41 ± 0.16 | 64.12 ± 1.12 | 92.71 ± 2.9 | 5.81 ± 0.30 | 118.1 ± 2.3 | 118.7 ± 2.0 | 0.56 ± 0.091 | 1.61 ± 0.26 | 10.31 ± 0.43 | 394.3 ± 11.5 | 390.6 ± 11.8 | 0.47 ± 0.090 | 6.18 ± 0.37 | 1.41 ± 0.18 | 18.61 ± 0.50 | 333.3 ± 10.2 | 80.72 ± 1.51 | 22.22 ± 0.45 | 6.89 ± 0.22 | 88.03 ± 1.51 | 43.7 ± 1.1 | 142.2 ± 2.5 | 36.72 ± 1.12 | 1.08 ± 0.13 | 64.1 ± 1.3 | 591 ± 14 | 0.484 ± 0.089 | 2.73 ± 0.19 | 5.77 ± 0.31 | 79.6 ± 1.8 |
| 3W | Seyval Blanc | W | 125 | w | 4.21 ± 0.12 | 1511 ± 12 | 38.42 ± 0.54 | 8.33 ± 0.39 | 136.5 ± 2.5 | 85.77 ± 1.71 | 0.66 ± 0.096 | 1.15 ± 0.20 | 4.94 ± 0.22 | 53.95 ± 0.54 | 357.2 ± 11.6 | 0.45 ± 0.087 | 8.26 ± 0.42 | 2.91 ± 0.27 | 12.51 ± 0.43 | 1632 ± 25 | 16.51 ± 1.12 | 16.22 ± 0.37 | 4.84 ± 0.21 | 49.31 ± 1.32 | 29.9 ± 0.56 | 355.1 ± 6.4 | 34.63 ± 1.15 | 1.11 ± 0.10 | 65 ± 1.3 | 600 ± 15 | 1.26 ± 0.20 | 2.34 ± 0.18 | 2.02 ± 0.23 | 80.2 ± 1.9 |
| 4W | Seyval Blanc | W | 125 | w | 4.29 ± 0.17 | 1608 ± 13 | 24.24 ± 0.43 | 7.49 ± 0.36 | 137.5 ± 2.4 | 70.98 ± 1.53 | 0.65 ± 0.094 | 1.12 ± 0.21 | 4.87 ± 0.23 | 54.41 ± 0.54 | 351.3 ± 11.4 | 0.43 ± 0.086 | 7.03 ± 0.40 | 2.83 ± 0.29 | 9.87 ± 0.30 | 1633 ± 27 | 18.22 ± 1.19 | 15.77 ± 0.34 | 3.85 ± 0.20 | 38.91 ± 1.01 | 18.2 ± 0.34 | 354.5 ± 6.2 | 34.71 ± 1.14 | 0.98 ± 0.023 | 84 ± 1.5 | 757 ± 17 | 1.28 ± 0.21 | 2.45 ± 0.16 | 2.18 ± 0.21 | 59.7 ± 1.6 |
| 5W | Bianca | KP | 74 | w | 2.95 ± 0.10 | 145.2 ± 5.1 | 14.31 ± 0.21 | 2.14 ± 0.23 | 75.64 ± 1.31 | 51.91 ± 1.21 | 0.51 ± 0.091 | 1.67 ± 0.26 | 12.11 ± 0.56 | 19.11 ± 0.34 | 613.2 ± 15.8 | 0.43 ± 0.082 | 2.77 ± 0.23 | 4.73 ± 0.31 | 7.41 ± 0.32 | 305.5 ± 10.5 | 29.61 ± 1.25 | 18.11 ± 0.38 | 2.61 ± 0.19 | 25.71 ± 1.02 | 7.54 ± 0.45 | 239.6 ± 7.9 | 28.61 ± 1.11 | 0.81 ± 0.023 | 135 ± 1.8 | 733 ± 18 | 0.940 ± 0.18 | 3.05 ± 0.21 | 8.73 ± 0.37 | 44.2 ± 1.2 |

| No _{sample} | Grape Type | Region of Poland | Location [Masl] | Color | Metal Content (µg/L) or (mg/L) /Isotope Mass (amu) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|------------|---------------------------------|-----------------|-------|--|---------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|-------------|--------------|-------------|--------------|--------------|--------------|------------|-----------|---------------|-------------|-------------|------------|
| | | | | | [µg/L] | | | | | | | | | | | | | | | | | [mg/L] | | | | | | | | | | | | | |
| | | | | | Ag 107 | Al 27 | As 75 | Zr 90 | Ba 138 | Bi 209 | Cd 111 | Co 59 | Cr 52 | Cu 63 | Fe 56 | Hg 201 | V 51 | Li 7 | Mo 98 | Na 23 | Ni 60 | Pb 206 | Sb 121 | Se 78 | Sn 115 | Sr 88 | Ti 47 | Tl 205 | Mg 25 | K 41 | Mn 55 | B 10 | Zn 64 | Ca 40 | |
| 6 | W | Solaris | KP | 74 | w | 1.840 ± 0.091 | 170.5 ± 5.8 | 19.83 ± 0.27 | 1.73 ± 0.19 | 65.51 ± 1.12 | 40.71 ± 1.12 | 0.66 ± 0.097 | 3.76 ± 0.34 | 16.11 ± 0.75 | 61.71 ± 0.59 | 855.1 ± 23.8 | 0.42 ± 0.085 | 2.14 ± 0.21 | 4.44 ± 0.33 | 5.58 ± 0.31 | 338.6 ± 10.2 | 61.72 ± 1.23 | 10.61 ± 0.32 | 2.38 ± 0.19 | 47.12 ± 1.51 | 6.69 ± 0.43 | 172.7 ± 7.5 | 31.82 ± 1.10 | 0.86 ± 0.024 | 69.5 ± 1.4 | 828 ± 18 | 1.14 ± 0.20 | 4.42 ± 0.24 | 1.29 ± 0.19 | 88.3 ± 2.1 |
| 7 | W | Aurore, Bianca Hibernat, Muscat | P | 120 | w | 1.520 ± 0.089 | 906.1 ± 11.1 | 15.87 ± 0.25 | 5.51 ± 0.30 | 92.11 ± 1.71 | 48.62 ± 1.14 | 0.41 ± 0.081 | 3.79 ± 0.35 | 24.81 ± 0.87 | 20.62 ± 0.33 | 637.2 ± 20.8 | 0.42 ± 0.083 | 17.91 ± 0.45 | 6.09 ± 0.45 | 15.31 ± 0.43 | 791.7 ± 20.1 | 39.91 ± 1.34 | 13.5 ± 0.35 | 2.56 ± 0.20 | 26.55 ± 0.87 | 6.97 ± 0.43 | 321.1 ± 8.2 | 33.11 ± 1.15 | 0.65 ± 0.021 | 93.1 ± 1.8 | 890 ± 19 | 3.48 ± 0.34 | 3.32 ± 0.18 | 2.21 ± 0.23 | 85.5 ± 1.9 |
| 8 | W | Aurore, Bianca | P | 120 | w | 1.390 ± 0.072 | 327.1 ± 8.8 | 13.02 ± 0.19 | 3.97 ± 0.26 | 64.83 ± 1.15 | 48.33 ± 1.19 | 0.27 ± 0.034 | 1.21 ± 0.19 | 22.84 ± 0.89 | 15.93 ± 0.31 | 482.4 ± 12.1 | 0.41 ± 0.084 | 8.52 ± 0.36 | 3.01 ± 0.32 | 8.47 ± 0.32 | 493.1 ± 13.1 | 43.25 ± 1.33 | 12.29 ± 0.27 | 2.15 ± 0.19 | 24.66 ± 0.89 | 4.17 ± 0.45 | 165.1 ± 7.1 | 31.84 ± 1.12 | 0.58 ± 0.018 | 100 ± 1.9 | 965 ± 20 | 0.329 ± 0.078 | 2.96 ± 0.16 | 1.55 ± 0.20 | 72.5 ± 1.8 |
| 9 | W | Hibernat, Bianca, Muller Turgau | KP | 92 | w | 1.660 ± 0.088 | 577.1 ± 14.2 | 8.83 ± 0.17 | 1.96 ± 0.17 | 63.02 ± 1.17 | 34.92 ± 1.10 | 0.36 ± 0.039 | 1.08 ± 0.19 | 95.17 ± 1.23 | 769.1 ± 11.9 | 1324 ± 28 | 0.39 ± 0.079 | 2.77 ± 0.21 | 27.21 ± 1.0 | 7.38 ± 0.29 | 345.2 ± 10.4 | 174.7 ± 2.5 | 48.69 ± 1.12 | 1.86 ± 0.16 | 25.11 ± 0.83 | 2.33 ± 0.23 | 222.1 ± 7.9 | 30.18 ± 1.11 | 0.58 ± 0.018 | 115 ± 2.0 | 1410 ± 23 | 1.40 ± 0.22 | 4.65 ± 0.23 | 1.42 ± 0.17 | 95.2 ± 2.2 |
| 10 | W | Bianca | SC | 320 | w | 1.170 ± 0.064 | 2059 ± 32 | 11.71 ± 0.19 | 25.42 ± 0.89 | 261.2 ± 4.9 | 33.85 ± 1.09 | 0.94 ± 0.19 | 5.47 ± 0.40 | 11.35 ± 0.50 | 63.44 ± 0.58 | 475.5 ± 11.9 | 0.38 ± 0.077 | 4.44 ± 0.24 | 9.57 ± 0.89 | 4.41 ± 0.26 | 3732 ± 39 | 78.27 ± 1.51 | 21.71 ± 0.54 | 1.73 ± 0.15 | 15.62 ± 0.65 | 3.11 ± 0.25 | 951.1 ± 11.2 | 38.99 ± 1.16 | 1.26 ± 0.23 | 104 ± 1.9 | 880 ± 20 | 1.42 ± 0.22 | 5.52 ± 0.27 | 3.50 ± 0.25 | 76.7 ± 1.9 |

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|----------------------|------------|------------------|-----------------|-------|--|---------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|------------|-----------|---------------|---------------|-------------|------------|
| | | | | | [µg/L] | | | | | | | | | | | | | | | | [mg/L] | | | | | | | | | | | | | | |
| | | | | | Ag 107 | Al 27 | As 75 | Zr 90 | Ba 138 | Bi 209 | Cd 111 | Co 59 | Cr 52 | Cu 63 | Fe 56 | Hg 201 | V 51 | Li 7 | Mo 98 | Na 23 | Ni 60 | Pb 206 | Sb 121 | Se 78 | Sn 115 | Sr 88 | Ti 47 | Tl 205 | Mg 25 | K 41 | Mn 55 | B 10 | Zn 64 | Ca 40 | |
| 11 | W | Hibernal | SC | 320 | w | 0.73 ± 0.056 | 1174 ± 20 | 12.97 ± 0.23 | 7.88 ± 0.39 | 190.4 ± 4.2 | 24.25 ± 1.08 | 1.56 ± 0.23 | 3.64 ± 0.34 | 13.41 ± 0.59 | 155.5 ± 2.3 | 456.2 ± 11.7 | 0.41 ± 0.089 | 4.75 ± 0.26 | 16.64 ± 1.20 | 5.35 ± 0.31 | 3823 ± 41 | 69.56 ± 1.43 | 27.85 ± 0.32 | 1.84 ± 0.17 | 12.82 ± 0.43 | 3.03 ± 0.25 | 401.4 ± 8.2 | 38.67 ± 1.15 | 0.97 ± 0.021 | 94.1 ± 1.7 | 1160 ± 21 | 1.49 ± 0.24 | 7.67 ± 0.32 | 3.89 ± 0.25 | 90.8 ± 2.1 |
| 12 | W | Hibernal | SC | 320 | w | 0.48 ± 0.055 | 2729 ± 22 | 22.75 ± 0.22 | 33.21 ± 0.78 | 182.1 ± 4.0 | 20.36 ± 1.11 | 0.89 ± 0.16 | 4.97 ± 0.39 | 24.83 | 126.1 ± 1.8 | 816.9 ± 25.8 | 0.39 ± 0.077 | 25.89 ± 0.49 | 13.02 ± 0.78 | 4.87 ± 0.30 | 3421 ± 42 | 142.9 ± 2.4 | 26.47 ± 0.24 | 1.57 ± 0.14 | 11.47 ± 0.39 | 1.56 ± 0.13 | 867.7 ± 12.2 | 43.41 ± 1.19 | 1.03 ± 0.029 | 92.1 ± 1.8 | 188 ± 2.3 | 1.41 ± 0.21 | 9.93 ± 0.36 | 5.71 ± 0.30 | 75.5 ± 1.8 |
| 13 | W | Hibernal | SC | 296 | w | 1.840 ± 0.091 | 56.66 ± 1.91 | 3.11 ± 0.10 | 1.21 ± 0.12 | 43.31 ± 1.09 | 1.71 ± 0.091 | 0.51 ± 0.091 | <0.002 | 7.12 ± 0.27 | 25000 ± 29 | 155.8 ± 2.8 | 0.43 ± 0.091 | 0.37 ± 0.14 | 1.13 ± 0.20 | 1.01 ± 0.19 | 99.94 ± 1.81 | 0.21 ± 0.012 | 23.24 ± 0.30 | 0.56 ± 0.012 | 6.79 ± 0.37 | <0.021 | 49.7 ± 1.2 | 24.61 ± 1.10 | 0.54 ± 0.017 | 123 ± 2.2 | 1540 ± 23 | 0.018 ± 0.007 | 0.333 ± 0.019 | 2.34 ± 0.21 | 137 |
| 14 | W | Hibernal | LP | 335 | w | 0.590 ± 0.046 | 1127 ± 19 | 9.41 ± 0.24 | 2.22 ± 0.19 | 187.1 ± 4.3 | 24.51 ± 1.10 | 0.44 ± 0.078 | 2.86 ± 0.32 | 13.61 ± 0.56 | 98.21 ± 0.98 | 331.8 ± 4.5 | 0.37 ± 0.081 | 20.19 ± 0.47 | 8.69 ± 0.67 | 5.99 ± 0.27 | 2491 ± 29 | 23.11 ± 1.12 | 18.16 ± 0.21 | 1.06 ± 0.021 | 6.93 ± 0.40 | 2.22 ± 0.22 | 503.4 ± 4.2 | 31.02 ± 1.14 | 1.15 ± 0.23 | 42.7 ± 1.3 | 1130 ± 21 | 0.99 ± 0.17 | 5.89 ± 0.34 | 9.89 ± 0.67 | 42.9 ± 1.3 |
| 15 | W | Jutrzenka | M | 151 | w | 0.610 ± 0.041 | 387.1 ± 9.2 | 5.75 ± 0.28 | 3.81 ± 0.28 | 202.4 ± 4.2 | 25.31 ± 1.09 | 0.65 ± 0.095 | 1.26 ± 0.26 | 6.11 ± 0.22 | 436.1 ± 11.5 | 407.1 ± 11.8 | 0.38 ± 0.080 | 7.5 ± 0.34 | 2.47 ± 0.28 | 2.73 ± 0.23 | 169.3 ± 7.8 | 50.91 ± 1.32 | 43.85 ± 0.43 | 1.79 ± 0.11 | 10.81 ± 0.32 | 2.71 ± 0.23 | 150.6 ± 5.1 | 29.12 ± 1.11 | 0.67 ± 0.020 | 84.2 ± 1.5 | 1090 ± 20 | 1.57 ± 0.25 | 1.44 ± 0.17 | 5.66 ± 0.30 | 72.4 ± 1.8 |
| 16 | W | Jutrzenka | M | 151 | w | 0.390 ± 0.039 | 427.1 ± 9.6 | 3.47 ± 0.19 | 1.55 ± 0.18 | 174.4 ± 3.7 | 20.92 ± 1.11 | 0.51 ± 0.091 | 1.36 ± 0.27 | 4.86 ± 0.22 | 29.47 ± 0.34 | 680.3 ± 23.8 | 0.35 ± 0.067 | 1.67 ± 0.11 | 3.65 ± 0.32 | 4.57 ± 0.32 | 110.4 ± 3.2 | 10.19 ± 1.01 | 6.14 ± 0.29 | 0.87 ± 0.021 | 5.56 ± 0.25 | 1.58 ± 0.18 | 143.1 ± 2.4 | 26.82 ± 1.10 | 0.65 ± 0.021 | 88.9 ± 1.6 | 817 ± 19 | 2.26 ± 0.27 | 2.57 ± 0.19 | 3.05 ± 0.25 | 78.5 ± 1.6 |

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|----------------------|------------|--------------------------------|-----------------|-------|--|--------------|--------------|-------------|-------------|--------------|--------------|---------------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|------------|-----------|-------------|-------------|-------------|------------|
| | | | | | [µg/L] | | | | | | | | | | | | | | | | | | | | [mg/L] | | | | | | | | | | |
| | | | | | Ag 107 | Al 27 | As 75 | Zr 90 | Ba 138 | Bi 209 | Cd 111 | Co 59 | Cr 52 | Cu 63 | Fe 56 | Hg 201 | V 51 | Li 7 | Mo 98 | Na 23 | Ni 60 | Pb 206 | Sb 121 | Se 78 | Sn 115 | Sr 88 | Ti 47 | Tl 205 | Mg 25 | K 41 | Mn 55 | B 10 | Zn 64 | Ca 40 | |
| 17 | W | Aurora, Bianca | M | 151 | w | 0.39 ± 0.038 | 342.1 ± 9.1 | 5.84 ± 0.33 | 3.11 ± 0.23 | 181.4 ± 4.1 | 17.11 ± 1.08 | 1.21 ± 0.21 ± 0.034 | 2.12 ± 0.31 | 11.77 ± 0.50 | 127.5 ± 1.7 | 761.2 ± 23.9 | 0.36 ± 0.078 | 8.76 ± 0.31 | 4.16 ± 0.34 | 2.27 ± 0.23 | 480.1 ± 10.1 | 62.38 ± 1.51 | 19.61 ± 0.33 | 0.98 ± 0.019 | 11.72 ± 0.43 | 1.37 ± 0.12 | 282.1 ± 7.9 | 27.42 ± 1.00 | 0.55 ± 0.018 | 106 ± 1.9 | 862 ± 14 | 2.07 ± 0.24 | 1.88 ± 0.16 | 3.28 ± 0.21 | 87.2 ± 1.9 |
| 18 | W | Aurora, Bianca | M | 151 | w | 0.31 ± 0.037 | 232.1 ± 7.8 | 4.11 ± 0.22 | 1.48 ± 0.11 | 117.3 ± 2.3 | 14.41 ± 1.07 | 1.09 ± 0.16 | 1.46 ± 0.27 | 8.63 ± 0.26 | <0.268 | 290.2 ± 3.2 | 0.36 ± 0.075 | 7.46 ± 0.27 | 2.74 ± 0.29 | 2.04 ± 0.22 | 33.63 ± 0.69 | 35.71 ± 1.41 | 13.91 ± 0.22 | 0.78 ± 0.016 | 5.78 ± 0.21 | 0.84 ± 0.023 | 279.2 ± 7.7 | 30.12 ± 1.13 | 0.6 ± 0.019 | 161 ± 2.5 | 1390 ± 24 | 2.45 ± 0.27 | 3.24 ± 0.22 | 3.81 ± 0.26 | 122 |
| 19 | W | La Crescent | M | 151 | w | 0.56 ± 0.041 | 402.2 ± 9.8 | 3.91 ± 0.19 | 1.41 ± 0.10 | 230.7 ± 4.7 | 14.27 ± 1.01 | 2.11 ± 0.30 | 2.82 ± 0.35 | 6.77 ± 0.31 | 226.1 ± 3.2 | 476.1 ± 11.5 | 0.36 ± 0.075 | 1.92 ± 0.11 | 1.03 ± 0.20 | 5.03 ± 0.29 | 77.74 ± 1.13 | 21.41 ± 1.14 | 6.21 ± 0.23 | 0.61 ± 0.014 | 3.94 ± 0.19 | 0.87 ± 0.045 | 280.2 ± 7.4 | 33.71 ± 1.15 | 1.06 ± 0.13 | 156 ± 2.5 | 985 ± 19 | 7.70 ± 0.48 | 4.00 ± 0.20 | 4.77 ± 0.29 | 95.4 ± 2.2 |
| 20 | W | La Crescent, St. Pepin | M | 151 | w | 0.29 ± 0.028 | 226.2 ± 7.6 | 4.04 ± 0.20 | 1.18 ± 0.10 | 186.4 ± 4.2 | 10.68 ± 1.02 | 3.73 ± 0.36 | 2.12 ± 0.32 | 5.46 ± 0.27 | 164.4 ± 2.8 | 361.2 ± 2.9 | 0.35 ± 0.072 | 0.88 ± 0.023 | 0.58 ± 0.14 | 2.99 ± 0.24 | 39.29 ± 0.39 | 32.61 ± 1.31 | 6.87 ± 0.19 | 0.51 ± 0.013 | 4.99 ± 0.32 | 0.72 ± 0.046 | 289.1 ± 7.4 | 31.51 ± 1.12 | 0.87 ± 0.016 | 69.3 ± 1.5 | 901 ± 17 | 6.84 ± 0.46 | 3.97 ± 0.21 | 6.65 ± 0.33 | 55 ± 1.5 |
| 21 | W | Andaluzna, Krasny, Pear & Star | M | 151 | w | 0.13 ± 0.006 | 559.9 ± 11.8 | 6.12 ± 0.26 | 3.97 ± 0.27 | 156.1 ± 3.2 | 7.19 ± 0.67 | 0.91 ± 0.15 | 1.04 ± 0.15 | 4.75 ± 0.22 | 47.31 ± 0.50 | 469.3 ± 11.9 | 0.35 ± 0.073 | 19.77 ± 0.46 | 3.07 ± 0.29 | 4.61 ± 0.36 | 188.9 ± 7.8 | 33.84 ± 1.36 | 13.81 ± 0.34 | 0.62 ± 0.016 | 10.11 ± 0.87 | 0.57 ± 0.032 | 170.5 ± 6.2 | 27.95 ± 1.11 | 0.61 ± 0.014 | 62.5 ± 1.4 | 166 ± 2 | 2.46 ± 0.29 | 2.30 ± 0.17 | 2.54 ± 0.21 | 43.9 ± 1.3 |
| 22 | W | Andaluzna, Krasny | M | 151 | w | 0.19 ± 0.009 | 133.1 ± 4.8 | 3.38 ± 0.21 | 3.15 ± 0.23 | 70.42 ± 1.16 | 7.35 ± 0.62 | 0.62 ± 0.097 | 1.19 ± 0.17 | 5.33 ± 0.25 | 496.1 ± 12.3 | 267.9 ± 2.8 | 0.34 ± 0.070 | 0.56 ± 0.027 | 5.65 ± 0.34 | 1.78 ± 0.19 | 67.68 ± 1.11 | 244.9 ± 2.9 | 40.21 ± 0.43 | 0.57 ± 0.017 | 3.34 ± 0.23 | 0.22 ± 0.021 | 89.81 | 30.26 ± 1.16 | 0.61 ± 0.016 | 66.5 ± 1.6 | 1330 ± 23 | 2.36 ± 0.27 | 3.73 ± 0.24 | 3.17 ± 0.25 | 32 ± 11 |

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|----------------------|------------|-----------------------|-----------------|-------|--|--------------|-------------|-------------|--------------|--------------|-------------|--------------|-------------|-------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|---------------|-------------|--------------|--------------|------------|-----------|-------------|-------------|-------------|------------|
| | | | | | [µg/L] | | | | | | | | | | | | | | | | | | | | [mg/L] | | | | | | | | | | |
| | | | | | Ag 107 | Al 27 | As 75 | Zr 90 | Ba 138 | Bi 209 | Cd 111 | Co 59 | Cr 52 | Cu 63 | Fe 56 | Hg 201 | V 51 | Li 7 | Mo 98 | Na 23 | Ni 60 | Pb 206 | Sb 121 | Se 78 | Sn 115 | Sr 88 | Ti 47 | Tl 205 | Mg 25 | K 41 | Mn 55 | B 10 | Zn 64 | Ca 40 | |
| 23 | W | Seyval Blanc | M | 151 | w | 0.16 ± 0.005 | 1589 ± 19.8 | 3.63 ± 0.23 | 3.34 ± 0.24 | 113.4 ± 2.4 | 9.01 ± 0.71 | 1.14 ± 0.16 | 1.99 ± 0.26 | 8.72 ± 0.34 | 83.71 ± 1.91 | 826.1 ± 23.8 | 0.34 ± 0.072 | 5.09 ± 0.31 | 8.09 ± 0.45 | 2.29 ± 0.21 | 463.1 ± 14.9 | 149.9 ± 2.4 | 17.28 ± 0.41 | 0.77 ± 0.018 | 4.47 ± 0.28 | 0.74 ± 0.034 | 211.1 ± 7.0 | 30.14 ± 1.11 | 0.56 ± 0.020 | 59.4 ± 1.5 | 1020 ± 22 | 1.47 ± 0.20 | 1.78 ± 0.15 | 3.45 ± 0.27 | 58.8 ± 1.4 |
| 24 | W | St.Pépin, La Crescent | M | 151 | w | 0.23 ± 0.011 | 91.61 ± 3.5 | 3.21 ± 0.19 | 1.08 ± 0.10 | 152.5 ± 2.7 | 7.17 ± 0.79 | 2.54 ± 0.32 | 1.17 ± 0.21 | 5.75 ± 0.29 | 400.2 ± 11.5 | 261.2 ± 3.1 | 0.35 ± 0.073 | 0.47 ± 0.23 | 0.53 ± 0.30 | 2.27 ± 0.20 | 5.33 ± 0.49 | 17.65 ± 1.19 | 6.77 ± 0.19 | 0.39 ± 0.012 | 4.35 ± 0.27 | <0.021 | 196.1 ± 6.5 | 33.53 ± 1.14 | 0.72 ± 0.019 | 130 ± 2.5 | 1220 ± 27 | 3.94 ± 0.32 | 6.35 ± 0.39 | 4.96 ± 0.29 | 74.1 ± 1.8 |
| 1R | | Allegro | W P | 125 | r | 0.06 ± 0.003 | 415.1 ± 9.8 | 4.79 ± 0.23 | 1.22 ± 0.11 | 266.3 ± 4.9 | 2.51 ± 0.22 | 0.55 ± 0.091 | 1.81 ± 0.26 | 6.98 ± 0.32 | 47.03 ± 0.51 | 711.2 ± 21.8 | 0.34 ± 0.080 | 4.28 ± 0.26 | 15.37 ± 1.20 | 2.04 ± 0.22 | 3805 ± 45 | 35.17 ± 1.29 | 54.16 ± 0.43 | 0.34 ± 0.011 | 2.91 ± 0.19 | 0.136 ± 0.018 | 391.4 ± 5.2 | 32.71 ± 1.15 | 0.99 ± 0.019 | 82.9 ± 1.7 | 960 ± 14 | 2.78 ± 0.28 | 5.92 ± 0.25 | 1.66 ± 0.12 | 55.6 ± 1.5 |
| 2R | | Regent, Rondo | W P | 125 | r | 0.04 ± 0.001 | 276.1 ± 6.8 | 4.72 ± 0.23 | 1.09 ± 0.099 | 303.5 ± 5.2 | 2.39 ± 0.24 | 0.83 ± 0.14 | 1.91 ± 0.27 | 5.89 ± 0.31 | 10.51 ± 0.24 | 311.1 ± 2.9 | 0.34 ± 0.075 | 0.61 ± 0.023 | 6.48 ± 0.67 | 0.59 ± 0.034 | 3287 ± 42 | 29.11 ± 1.25 | 55.55 ± 0.43 | 0.26 ± 0.011 | 3.06 ± 0.21 | <0.021 | 488.1 ± 6.2 | 35.41 ± 1.14 | 0.82 ± 0.017 | 108 ± 1.9 | 1190 ± 19 | 2.64 ± 0.26 | 4.90 ± 0.22 | 4.19 ± 0.30 | 50.4 ± 1.3 |
| 3R | | Rondo | KP | 74 | r | 3.85 ± 0.14 | 146.2 ± 7.8 | 3.62 ± 0.19 | 1.01 ± 0.11 | 95.41 ± 1.21 | 3.03 ± 0.23 | 0.42 ± 0.087 | 2.39 ± 0.32 | 7.15 ± 0.34 | <0.268 | 290.4 ± 2.8 | 0.35 ± 0.069 | 0.03 ± 0.0021 | 9.33 ± 0.61 | 0.31 ± 0.021 | 311.1 ± 10.1 | 66.51 ± 1.51 | 12.12 ± 0.32 | 0.17 ± 0.011 | 3.75 ± 0.23 | <0.021 | 212.1 ± 7.0 | 28.51 ± 1.00 | 0.76 ± 0.019 | 95.5 ± 1.7 | 1820 ± 34 | 1.56 ± 0.21 | 6.31 ± 0.38 | 4.87 ± 0.31 | 60 ± 1.6 |
| 4R | | Regent | KP | 74 | r | 0.03 ± 0.003 | 131.3 ± 4.8 | 3.47 ± 0.24 | 0.98 ± 0.034 | 79.31 ± 1.18 | 2.72 ± 0.20 | 0.39 ± 0.076 | 1.62 ± 0.25 | 6.54 ± 0.29 | 27.61 ± 0.34 | 268.1 ± 2.7 | 0.33 ± 0.068 | <0.003 | 5.18 ± 0.59 | 0.58 ± 0.026 | 308.1 ± 10.8 | 49.31 ± 1.45 | 7.69 ± 0.19 | 0.14 ± 0.010 | 4.68 ± 0.32 | <0.021 | 164.1 ± 6.5 | 28.32 ± 1.09 | 0.78 ± 0.020 | 98.9 ± 1.8 | 2050 ± 28 | 1.20 ± 0.16 | 5.98 ± 0.24 | 3.68 ± 0.27 | 56.6 ± 1.5 |

| No _{sample} | Grape Type | Region of Poland | Location [Mas] | Color | Metal Content (µg/L) or (mg/L) /Isotope Mass (amu) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|------------------------|------------------|----------------|-------|--|--------------|-------------|-------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------|-------------|--------------|--------------|------------|-----------|---------------|-------------|-------------|------------|
| | | | | | [µg/L] | | | | | | | | | | | | | | | | | | | | [mg/L] | | | | | | | | | |
| | | | | | Ag | Al | As | Zr | Ba | Bi | Cd | Co | Cr | Cu | Fe 56 | Hg | V | Li 7 | Mo 98 | Na 23 | Ni 60 | Pb | Sb | Se 78 | Sn | Sr 88 | Ti 47 | Tl | Mg | K 41 | Mn 55 | B 10 | Zn | Ca |
| | | | | | 107 | 27 | 75 | 90 | 138 | 209 | 111 | 59 | 52 | 63 | | 201 | 51 | | | | | 206 | 121 | | 115 | | | 205 | 25 | | | | 64 | 40 |
| 5R | Regent | P | 120 | r | 0.03 ± 0.002 | 201.1 ± 10.8 | 3.77 ± 0.23 | 1.39 ± 0.11 | 85.35 ± 1.20 | 3.63 ± 0.21 | 0.24 ± 0.056 | 0.87 ± 0.067 | 17.87 ± 0.75 | <0.268 | 444.5 ± 12.3 | 0.33 ± 0.073 | 1.19 ± 0.11 | 2.31 ± 0.29 | 4.47 ± 0.28 | 219.1 ± 7.9 | 35.22 ± 1.23 | 11.61 ± 0.17 | 0.15 ± 0.011 | 2.58 ± 0.25 | <0.021 | 225.5 ± 7.9 | 30.07 ± 1.12 | 0.51 ± 0.013 | 78.4 ± 1.6 | 1980 ± 19 | 0.405 ± 0.091 | 5.34 ± 0.27 | 6.27 ± 0.34 | 78.2 ± 1.8 |
| 6R | Pinot Noir. | KP | 92 | r | 0.07 ± 0.004 | 292.1 ± 7.9 | 3.38 ± 0.22 | 1.25 ± 0.10 | 76.87 ± 1.12 | 3.03 ± 0.26 | 0.23 ± 0.051 | 0.45 ± 0.043 | 7.99 ± 0.34 | <0.268 | 745.6 ± 23.8 | 0.33 ± 0.076 | 0.48 ± 0.12 | 34.01 ± 1.20 | 4.96 ± 0.429 | 460.4 ± 16.4 | 13.61 ± 1.16 | 9.61 ± 0.17 | 0.28 ± 0.013 | 12.85 ± 0.87 | <0.021 | 297.1 ± 7.8 | 27.11 ± 1.07 | 0.63 ± 0.017 | 74 ± 1.5 | 1740 ± 30 | 1.51 ± 0.22 | 8.31 ± 0.39 | 3.63 ± 0.26 | 86.3 ± 1.9 |
| 7R | Rondo | SC | 320 | r | 0.02 ± 0.001 | 462.1 ± 10.2 | 7.63 ± 0.43 | 4.02 ± 0.27 | 300.3 ± 5.1 | 2.19 ± 0.19 | 0.68 ± 0.097 | 3.25 ± 0.33 | 15.41 ± 0.70 | 77.82 ± 0.64 | 1232 ± 31 | 0.34 ± 0.071 | 5.09 ± 0.24 | 12.16 ± 0.67 | 3.26 ± 0.26 | 2393 ± 29 | 139.9 ± 2.4 | 13.02 ± 0.21 | 0.41 ± 0.015 | 3.74 ± 0.34 | <0.021 | 1389 ± 12.2 | 30.91 ± 1.14 | 0.85 ± 0.019 | 106 ± 1.9 | 2020 ± 31 | 2.62 ± 0.27 | 11.8 ± 0.52 | 2.10 ± 0.21 | 81.6 ± 1.9 |
| 8R | Regent | SC | 320 | r | 0.02 ± 0.002 | 680.7 ± 17.8 | 9.08 ± 0.37 | 2.16 ± 0.26 | 285.1 ± 4.9 | 1.84 ± 0.17 | 0.71 ± 0.099 | 2.78 ± 0.33 | 11.92 ± 0.49 | 15.63 ± 0.34 | 527.2 ± 13.0 | 0.33 ± 0.070 | 8.06 ± 0.29 | 18.91 ± 0.56 | 1.09 ± 0.099 | 2042 ± 30 | 132.5 ± 2.1 | 14.35 ± 0.22 | 0.29 ± 0.013 | 2.74 ± 0.23 | <0.021 | 826.5 ± 8.9 | 28.55 ± 1.05 | 1.31 ± 0.13 | 106 ± 2.0 | 1670 ± 19 | 2.84 ± 0.28 | 12.1 ± 0.51 | 2.29 ± 0.19 | 66.4 ± 1.6 |
| 9R | Marchal Feob. Lora MBR | M | 224 | r | 0.02 ± 0.001 | 345.5 ± 9.6 | 3.83 ± 0.17 | 1.77 ± 0.18 | 151.1 ± 3.2 | 1.27 ± 0.12 | 0.67 ± 0.095 | 2.52 ± 0.30 | 6.36 ± 0.28 | <0.268 | 1064 ± 30 | 0.32 ± 0.068 | 2.89 ± 0.21 | 2.97 ± 0.29 | 0.98 ± 0.078 | 323.1 ± 10.2 | 81.61 ± 1.65 | 16.54 ± 0.20 | 0.14 ± 0.011 | 3.42 ± 0.30 | <0.021 | 526.5 ± 6.2 | 28.16 ± 1.05 | 1.29 ± 0.18 | 106 ± 1.9 | 2050 ± 28 | 0.952 ± 0.20 | 11.9 ± 0.49 | 5.57 ± 0.30 | 78.3 ± 1.8 |
| 10R | Frontenac | M | 151 | r | 0.05 ± 0.003 | 806.6 ± 22.8 | 7.45 ± 0.25 | 2.55 ± 0.21 | 514.1 ± 12.3 | 4.04 ± 0.21 | 1.22 ± 0.18 | 2.42 ± 0.29 | 6.57 ± 0.26 | <0.268 | 1002 ± 29 | 0.33 ± 0.069 | 19.21 ± 0.45 | 1.61 ± 0.20 | 3.71 ± 0.37 | 279.1 ± 9.8 | 63.42 ± 1.49 | 16.97 ± 0.19 | 0.48 ± 0.014 | 4.57 ± 0.34 | <0.021 | 405.8 ± 6.2 | 28.51 ± 1.11 | 0.58 ± 0.023 | 91.4 ± 1.8 | 1630 ± 21 | 4.560 ± 0.35 | 4.49 ± 0.21 | 2.21 ± 0.17 | 105 ± 2.5 |

| No _{sample} | Grape Type | Region of Poland | Location [Masl] | Color | Metal Content (µg/L) or (mg/L) /Isotope Mass (amu) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|------------|-------------------------|-----------------|-------|--|---------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|-------------|--------------|-------------|--------------|--------------|------------|------------|-------------|-------------|---------------|------------|
| | | | | | [µg/L] | | | | | | | | | | | | | | | | | | | | [mg/L] | | | | | | | | | | |
| | | | | | Ag | Al | As | Zr | Ba | Bi | Cd | Co | Cr | Cu | Fe 56 | Hg | V | Li 7 | Mo 98 | Na 23 | Ni 60 | Pb | Sb | Se 78 | Sn | Sr 88 | Ti 47 | Tl | Mg | K 41 | Mn 55 | B 10 | Zn | Ca | |
| | | | | | 107 | 27 | 75 | 90 | 138 | 209 | 111 | 59 | 52 | 63 | | 201 | 51 | | | | | 206 | 121 | | 115 | | | 205 | 25 | | | | 64 | 40 | |
| 11 | R | Frontenac | M | 151 | r | 0.04 ± 0.001 | 217.7 ± 4.8 | 6.41 ± 0.27 | 0.99 ± 0.056 | 373.1 ± 9.3 | 3.11 ± 0.20 | 0.73 ± 0.097 | 0.42 ± 0.054 | 4.62 ± 0.22 | 404.1 ± 11.9 | 715.1 ± 23.1 | 0.34 ± 0.074 | 0.11 ± 0.01 | 0.57 ± 0.11 | 3.25 ± 0.30 | 16.02 ± 1.11 | 33.31 ± 1.21 | 79.16 ± 0.79 | 0.32 ± 0.013 | 2.83 ± 0.28 | <0.021 | 420.8 ± 6.1 | 27.32 ± 1.09 | 0.62 ± 0.021 | 99.2 ± 1.7 | 2100 ± 34 | 3.81 ± 0.31 | 6.03 ± 0.27 | 4.52 ± 0.27 | 96.3 ± 2.4 |
| 12 | R | Regent | M | 151 | r | 0.02 ± 0.0005 | 110.4 ± 3.1 | 1.93±0.12 | 1.08 ± 0.097 | 206.2 ± 4.2 | 2.51 ± 0.10 | 0.42 ± 0.061 | 0.22 ± 0.021 | 3.74 ± 0.20 | <0.268 | 584.7 ± 17.8 | 0.33 ± 0.059 | <0.003 | 1.97 ± 0.18 | 0.31 ± 0.021 | 118.3 ± 2.8 | 18.46 ± 1.129 | 8.97 ± 0.49 | 0.11 ± 0.010 | 1.31 ± 0.17 | <0.021 | 262.1 ± 7.9 | 25.13 ± 1.04 | 0.63±0.020 | 96.5±1.9 | 1500 ± 19 | 2.22 ± 0.29 | 2.54 ± 0.19 | 0.87 ± 0.034 | 53.9 ± 1.5 |
| 13 | R | Regent, Frontenac | M | 151 | r | 0.17 ± 0.005 | 341.2 ± 7.2 | 2.43 ± 0.14 | 1.03 ± 0.067 | 307.3 ± 5.2 | 2.03 ± 0.14 | 0.66 ± 0.091 | 1.58 ± 0.26 | 8.31 ± 0.40 | 91.91 ± 1.34 | 861.9 ± 23.8 | 0.33 ± 0.067 | 0.43 ± 0.013 | 2.18 ± 0.20 | 5.26 ± 0.40 | 152.4 ± 7.4 | 73.99 ± 1.51 | 7.62 ± 0.54 | 0.25 ± 0.012 | 2.12 ± 0.19 | <0.021 | 265.1 ± 7.6 | 27.21 ± 1.02 | 0.62 ± 0.023 | 140 ± 2.5 | 2380 ± 40 | 4.62 ± 0.42 | 4.31 ± 0.25 | 0.29 ± 0.011 | 83.5 ± 1.8 |
| 14 | R | Heridian | M | 151 | r | 0.06 ± 0.0008 | 294.6 ± 5.8 | 4.49 ± 0.17 | 1.86 ± 0.11 | 746.3 ± 14.5 | 7.32 ± 0.71 | 0.62 ± 0.090 | 0.44 ± 0.056 | 10.81 ± 0.55 | 475.1 ± 12.5 | 752.8 ± 21.8 | 0.31 ± 0.059 | 0.25 ± 0.011 | 0.42 ± 0.056 | 4.64 ± 0.37 | 12.21 ± 1.09 | 61.24 ± 1.47 | 46.11 ± 0.43 | 0.83 ± 0.016 | 3.67 ± 0.26 | 0.81 ± 0.012 | 560.5 ± 8.2 | 26.24 ± 1.09 | 0.64 ± 0.019 | 139 ± 2.4 | 2240 ± 37 | 9.22 ± 0.56 | 7.20 ± 0.32 | 0.38 ± 0.009 | 98.2 ± 1.9 |
| 15 | R | Leon MBB, Maschal, Rob. | M | 151 | r | <0.001 | 530.8 ± 17.8 | 5.52 ± 0.25 | 2.12 ± 0.15 | 507.1 ± 13.2 | 1.07 ± 0.10 | 0.51 ± 0.091 | 1.53 ± 0.25 | 7.64 ± 0.38 | 41.81 ± 0.49 | 482.8 ± 11.8 | 0.31 ± 0.057 | 7.81±0.37 | 1.55 ± 0.21 | 1.74 ± 0.21 | 138.3 ± 7.1 | 42.51 ± 1.42 | 22.21 ± 0.36 | 0.24 ± 0.011 | 4.33 ± 0.34 | <0.021 | 472.2 ± 7.4 | 24.55 ± 1.04 | 0.71 ± 0.023 | 98.2 ± 1.9 | 97.1 ± 1.9 | 3.94 ± 0.32 | 3.83 ± 0.23 | 0.121 ± 0.024 | 72.1 ± 1.7 |
| 16 | R | MBB, Leon | M | 151 | r | <0.001 | 104.1 ± 4.3 | 3.54 ± 0.23 | 0.98 ± 0.045 | 593.1 ± 13.3 | 0.42 ± 0.011 | 0.44 ± 0.071 | 0.68 ± 0.067 | 3.56 ± 0.20 | 42.44 ± 0.50 | 782.5 ± 23.8 | 0.31 ± 0.064 | <0.003 | 0.95 ± 0.040 | 0.86 ± 0.021 | 19.15 ± 1.00 | 32.82 ± 1.32 | 34.71 ± 0.21 | 0.12 ± 0.010 | 4.02 ± 0.36 | <0.021 | 700.3 ± 8.2 | 28.35 ± 1.11 | 0.71 ± 0.024 | 106 ± 1.9 | 2840 ± 39 | 4.32 ± 0.35 | 7.05 ± 0.40 | 0.399 ± 0.034 | 93.2 ± 2.0 |

| No _{sample} | Grape Type | Region of Poland | Location [Mas] | Color | Metal Content (µg/L) or (mg/L) /Isotope Mass (amu) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-----------------------|------------------|----------------|-------|--|--------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------|-------------|--------------|--------------|------------|-----------|-------------|-------------|---------------|------------|
| | | | | | [µg/L] | | | | | | | | | | | | | | | | | | | | | | [mg/L] | | | | | | | |
| | | | | | Ag 107 | Al 27 | As 75 | Zr 90 | Ba 138 | Bi 209 | Cd 111 | Co 59 | Cr 52 | Cu 63 | Fe 56 | Hg 201 | V 51 | Li 7 | Mo 98 | Na 23 | Ni 60 | Pb 206 | Sb 121 | Se 78 | Sn 115 | Sr 88 | Ti 47 | Tl 205 | Mg 25 | K 41 | Mn 55 | B 10 | Zn 64 | Ca 40 |
| 17 | Rondo Maschal | M | 151 | r | <0.001 | 336.1 ± 12.1 | 2.18 ± 0.19 | 1.15 ± 0.13 | 474.1 ± 12.5 | 1.35 ± 0.091 | 0.93 ± 0.16 | 1.83 ± 0.28 | 4.37 ± 0.22 | 35.47 ± 0.46 | 791.5 ± 25.9 | 0.32 ± 0.065 | <0.003 | 4.12 ± 0.32 | 1.46 ± 0.20 | 90.12 ± 2.13 | 30.34 ± 1.26 | 8.79 ± 0.19 | 0.11 ± 0.010 | 1.51 ± 0.21 | <0.021 | 522.1 ± 8.0 | 27.21 ± 1.11 | 0.72 ± 0.020 | 134 ± 2.3 | 3170 ± 51 | 7.07 ± 0.45 | 5.16 ± 0.24 | 0.449 ± 0.31 | 86.6 ± 1.9 |
| 18 | St. Croix, Słobowicki | M | 151 | r | <0.001 | 109.1 ± 2.2 | 2.91 ± 0.17 | 0.93 ± 0.089 | 478.1 ± 12.3 | 0.17 ± 0.010 | 0.32 ± 0.045 | 0.16 ± 0.019 | 4.01 ± 0.21 | 13.69 ± 0.84 | 249.1 ± 2.8 | 0.31 ± 0.060 | <0.003 | 4.11 ± 0.40 | 0.41 ± 0.018 | 98.48 ± 2.43 | 23.55 ± 1.17 | 11.31 ± 0.17 | 0.16 ± 0.013 | 1.55 ± 0.12 | <0.021 | 478.1 ± 6.2 | 25.72 ± 1.06 | 0.76 ± 0.022 | 115 ± 2.1 | 3250 ± 54 | 5.13 ± 0.43 | 6.60 ± 0.30 | 0.075 ± 0.005 | 77 ± 1.8 |
| 19 | Rondo, Regent | KP | 92 | r | 0.03 ± 0.001 | 602.1 ± 17.8 | 6.21 ± 0.42 | 1.11 ± 0.094 | 60.51 ± 1.10 | 0.66 ± 0.011 | 0.58 ± 0.091 | 0.66 ± 0.067 | 17.03 ± 0.75 | 1284 ± 17 | 891.2 ± 23.8 | 0.32 ± 0.058 | 2.12 ± 0.21 | 29.91 ± 1.0 | 2.49 ± 0.28 | 380.9 ± 10.9 | 64.17 ± 1.45 | 349.9 ± 9.12 | 1.47 ± 0.14 | 11.55 ± 0.87 | <0.021 | 197.1 ± 7.9 | 24.71 ± 1.05 | 0.57 ± 0.019 | 66.6 ± 1.4 | 1330 ± 23 | 2.27 ± 0.27 | 6.03 ± 0.29 | 2.409 ± 0.21 | 68.9 ± 1.6 |
| 20 | Rondo | SC | 320 | r | 0.03 ± 0.003 | 2489 ± 35.8 | 7.57 ± 0.46 | 12.32 ± 0.56 | 200.6 ± 4.2 | 1.48 ± 0.10 | 0.45 ± 0.067 | 1.89 ± | 13.12 ± 0.61 | 1101 ± 16 | 2209 ± 39 | 0.32 ± 0.072 | 6.03 ± 0.28 | 18.94 ± 0.98 | 1.96 ± 0.21 | 3554 ± 42 | 138.9 ± 2.1 | 23.35 ± 0.26 | 0.54 ± 0.015 | 1.68 ± 0.14 | <0.021 | 610.1 ± 8.2 | 23.81 ± 1.11 | 0.95 ± 0.024 | 68.5 ± 1.3 | 1750 ± 19 | 2.19 ± 0.28 | 8.73 ± 0.43 | 0.122 ± 0.001 | 88.1 ± 1.9 |

KP, Kuyavian-Pomerania; LP, Lesser Poland; M, Masovia; P, Pomerania; r, red; SC, Subcarpatia; w, white; WP, West Pomerania

Table S2. Calibration curve parameters, LOD and LOQ values of ICP-MS/ICP-OES analytical techniques.

| Element | Mass | R | 1st term | Const. | LOD [$\mu\text{g L}^{-1}$] 3s | LOQ [$\mu\text{g L}^{-1}$] 10s |
|------------------------------|------------|---------|----------|----------|------------------------------------|-------------------------------------|
| Ag | 107 | 0.99999 | 0.107421 | -0.00542 | 0.001 | 0.003 |
| Al | 27 | 0.99997 | 0.037549 | -1.30754 | 0.031 | 0.103 |
| As | 75 | 0.99999 | 2.699769 | -0.01012 | 0.006 | 0.021 |
| B | 11 | 0.99946 | 0.236112 | -2.76755 | 0.418 | 1.395 |
| Ba | 138 | 0.98317 | 0.423326 | 4.314401 | 0.001 | 0.005 |
| Bi | 209 | 0.99939 | 0.153274 | -0.09111 | 0.008 | 0.029 |
| Cd | 114 | 0.99957 | 0.311808 | 0.011723 | 0.002 | 0.007 |
| Co | 59 | 0.99999 | 0.143494 | -0.0302 | 0.002 | 0.006 |
| Cr | 52 | 0.99896 | 0.30841 | 0.131909 | 0.036 | 0.123 |
| Cu | 63 | 0.99993 | 0.161124 | -3.20904 | 0.368 | 1.227 |
| Fe | 56 | 0.99828 | 0.231216 | 2.390056 | 0.354 | 1.183 |
| Hg | 201 | 0.99731 | 0.586196 | 0.022925 | 0.004 | 0.016 |
| Li | 7 | 0.99996 | 0.120225 | -0.06093 | 0.001 | 0.003 |
| Mn | 55 | 0.99974 | 0.584364 | -1.07639 | 0.011 | 0.034 |
| Mo | 95 | 0.98929 | 0.467504 | -0.07762 | 0.003 | 0.012 |
| Na | 23 | 0.99735 | 0.002412 | -13.8966 | 0.032 | 0.106 |
| Ni | 60 | 0.98474 | 0.489872 | -0.93239 | 0.03 | 0.115 |
| Pb | 206 | 0.99691 | 0.472782 | 0.402906 | 0.004 | 0.013 |
| Sb | 121 | 0.99962 | 0.41178 | -0.01728 | 0.002 | 0.006 |
| Se | 78 | 0.99998 | 46.57817 | -0.06415 | 0.061 | 0.202 |
| Sn | 115 | 0.99646 | 0.970044 | -0.06483 | 0.021 | 0.069 |
| Sn | 116 | 0.99999 | 0.763471 | -0.11474 | 0.020 | 0.067 |
| Sr | 88 | 0.98165 | 0.643907 | 4.663796 | 0.003 | 0.011 |
| Ti | 47 | 0.99617 | 14.98718 | 2.094714 | 0.082 | 0.274 |
| Tl | 205 | 0.99997 | 0.124699 | 0.040403 | 0.0002 | 0.0006 |
| V | 51 | 0.99844 | 0.52999 | -0.02537 | 0.003 | 0.012 |
| Zn | 66 | 0.98432 | 0.680617 | 5.323809 | 0.017 | 0.059 |
| Zr | 90 | 1 | 0.175333 | 0.06953 | 0.002 | 0.009 |
| Element | Wavelength | r | c | d | LOD [$\mu\text{g L}^{-1}$] 3s | LOQ [$\mu\text{g L}^{-1}$] 10s |
| Ca (7 L min ⁻¹) | 393.3 | 0.99936 | 0.2546 | -2.661 | 0.333 | 1.110 |
| Ca (10 L min ⁻¹) | 393.3 | 0.99922 | 0.2271 | -0.0513 | 0.375 | 1.250 |
| Mg (7 L min ⁻¹) | 279.5 | 0.99997 | 0.0404 | -0.4139 | 0.070 | 0.233 |
| Mg (10 L min ⁻¹) | 279.5 | 0.99891 | 0.0493 | -0.0047 | 0.042 | 0.140 |
| K (7 L min ⁻¹) | 766.4 | 0.99854 | 0.5249 | 0.0434 | 1.465 | 4.884 |
| K (10 L min ⁻¹) | 766.4 | 0.99811 | 0.3773 | -2.8110 | 0.332 | 1.108 |

Table S3. Validation report of ICP-MS analytical technique.

No Gas

Inten. / Peak

| Elem | Mass | Inten. Min | Inten.(kcp s) | Inten. Judge | RSD Max(%) | Meas. RSD (%) | RSD Judge |
|------|------|------------|---------------|--------------|------------|---------------|-----------|
| | | (kcps) | | | | | |
| Be | 9 | 50 | 90.1738 | Good | 3 | 2.4 | Good |
| In | 115 | 200 | 390.4566 | Good | 3 | 0.7 | Good |
| Bi | 209 | 150 | 385.1826 | Good | 3 | 1.2 | Good |

Mass axis

| Elem | Mass | Max gap (u) | Meas. gap (u) | Meas. qa Judge | Resoluti R value(| Meas. resolution (u) | Resolution Judge |
|------|------|-------------|---------------|----------------|-------------------|----------------------|------------------|
| | | | | | | | |
| Be | 9 | 0.10 | 0.05 | Good | 0.9 | 0.77 | Good |
| In | 115 | 0.10 | 0.06 | Good | 0.9 | 0.73 | Good |
| Bi | 209 | 0.10 | 0.08 | Good | 0.9 | 0.74 | Good |

Oxide / Divalent / BG

| Item | Formula | Unit | Max | Meas. | Judge | Output intensity | Standard element int |
|----------|-----------|------|---------|---------|-------|------------------|----------------------|
| Ce Oxid | 156 / 14 | % | 5.00 | 1.27 | Good | 5.5901 | 439.6427 |
| Ce Dival | 70.0 / 14 | % | 5.00 | 1.23 | Good | 5.5486 | 452.5296 |
| BG | 5 | kcps | 0.10000 | 0.00548 | Good | | |
| BG | 220 | kcps | 0.01000 | 0.00044 | Good | | |

Use Gas

Inten. / Peak

| Elem | Mass | Inten. Min | Inten.(kcp s) | Inten. Judge | RSD Max(%) | Meas. RSD (%) | RSD Judge |
|------|------|------------|---------------|--------------|------------|---------------|-----------|
| | | (kcps) | | | | | |
| Co | 59 | 30 | 80.8148 | Good | 3 | 1.0 | Good |

Mass axis

| Elem | Mass | Max gap (u) | Meas. gap (u) | Meas. qa Judge | Resoluti R value(| Meas. resolution (u) | Resolution Judge |
|------|------|-------------|---------------|----------------|-------------------|----------------------|------------------|
| | | | | | | | |
| Co | 59 | 0.10 | 0.06 | Good | 0.9 | 0.73 | Good |

Oxide / Divalent / BG

| Item | Formula | Unit | Max | Meas. | Judge | Output intensity | Standard element int |
|------|---------|------|---------|---------|-------|------------------|----------------------|
| BG | 78 | kcps | 0.10000 | 0.00448 | Good | | |