

MAGRUDER METHOD CODES (ver 021415)

There are many more additional method codes in the new program listed in the table below. The additional codes provide greater specificity on the methods used. The new codes are shown in the first column with a cross reference to the old code, if available, in the last column. The text that appears in a drop down box for selection on the data reporting web site is shown in the column entitled "Method Description". The column entitled "Further Method Description" describes further method details not present in "Method Description". If a single AOAC reference is available describing the method from preparation to detection, the reference is provided in the "AOAC reference" column. Hybrid methods with preparation by one method and detection by another method are provided in "Further Method Description" column.

IT IS VERY IMPORTANT you report the appropriate method code that describes the method you used. This will ensure accurate data collection for comparing results from various methods for an analyte.

| Method Code | Analyte | Method Description | Unit | AOAC Reference | Further Method Description | Old Method Code |
|-------------|----------------------------------|-----------------------------------|------|----------------|----------------------------|-----------------|
| 001.10 | Ammoniacal Nitrogen | Magnesium Oxide Method | % | 920.03 | | 001.10 |
| 001.99 | Ammoniacal Nitrogen | Other | % | | | 001.99 |
| 002.10 | Nitrate Nitrogen | Robertson | % | 930.01 | | 002.10 |
| 002.20 | Nitrate Nitrogen | Jones Modified | % | 930.02 | | 002.20 |
| 002.99 | Nitrate Nitrogen | Other | % | | | 002.99 |
| 003.10 | Water Insoluble Nitrogen | Method I | % | 945.01 | | 003.10 |
| 003.20 | Water Insoluble Nitrogen | Method II (Katz) | % | 970.04 | | 003.20 |
| 003.99 | Water Insoluble Nitrogen | Other | % | | | 003.99 |
| 004.00 | Nitrogen Activity Index | Urea-Formaldehyde Compounds | % | 955.05 | | 004.00 |
| 005.00 | Urea Nitrogen | Urease (as N) | % | 959.03 | | 005.00 |
| 005.99 | Urea Nitrogen | Other | % | | | 005.99 |
| 006.00 | Biuret Nitrogen | AA (as N) | % | 976.01 | | 006.00 |
| 006.10 | Biuret Nitrogen | Spectrophotometric (as N) | % | 960.04 | | 006.10 |
| 006.99 | Biuret Nitrogen | Other | % | | | 006.99 |
| 007.00 | Urea | Urease (as Urea) | % | 959.03 | | 007.00 |
| 007.99 | Urea | Other | % | | | 007.99 |
| 008.00 | Biuret | AA (as Biuret) | % | 976.01 | | 008.00 |
| 008.10 | Biuret | Spectrophotometric (as Biuret) | % | 960.04 | | 008.10 |
| 008.99 | Biuret | Other | % | | | 008.99 |
| 009.10 | Ammoniacal Plus Nitrate Nitrogen | Devarda | % | 892.01 | | 009.10 |
| 009.99 | Ammoniacal Plus Nitrate Nitrogen | Other | % | | | 009.99 |
| 010.10 | Total Nitrogen | Reduced Iron | % | | | 010.10 |
| 010.11 | Total Nitrogen | Modified Comprehensive | % | 978.02 | | 010.11 |
| 010.12 | Total Nitrogen | Salicylic | % | 955.04D | | 010.12 |
| 010.16 | Total Nitrogen | Raney | % | 970.03 | | 010.16 |
| 010.17 | Total Nitrogen | Comprehensive | % | 970.02 | | 010.17 |
| 010.60 | Total Nitrogen | Combustion | % | 993.13 | | 010.60 |
| 010.99 | Total Nitrogen | Other | % | | | 010.99 |
| 020.10 | Total Phosphorus as P2O5 | Gravimetric Quinolinium MolybdoP | % | 962.02 | Prep as 957.02 | 020.10 |
| 020.20 | Total Phosphorus as P2O5 | Spectrophotometric MolybdovanadoP | % | 958.01 | Prep as 957.02 | 020.20 |
| 020.30 | Total Phosphorus as P2O5 | Alkalimetric Quinolinium MolybdoP | % | 969.02 | Prep as 957.02 | 020.30 |

| | | | | | | |
|--------|---------------------------------------|--|---|---------|---|--------|
| 020.40 | Total Phosphorus as P2O5 | Automated | % | 978.01 | Prep as 957.02 | 020.40 |
| 020.50 | Total Phosphorus as P2O5 | ICP | % | | | 020.50 |
| 020.60 | Total Phosphorus as P2O5 | AFPC No.3B | % | | Grav Quin MolybdoP detection, test portion- 4:1 HNO ₃ (1:1 HNO ₃ :DI water) : HCl | n/a |
| 020.99 | Total Phosphorus as P2O5 | Other | % | | | 020.99 |
| 030.10 | Citrate Insoluble Phosphorus as P2O5 | Gravimetric Quinolinium MolybdoP | % | 963.03 | Detect as 963.03C(a) | 030.10 |
| 030.20 | Citrate Insoluble Phosphorus as P2O5 | Spectrophotometric MolybdovanadoP | % | 963.03 | Detect as 963.03C(b) | 030.20 |
| 030.30 | Citrate Insoluble Phosphorus as P2O5 | Alkalimetric Quinolinium MolybdoP | % | 963.03 | Detect as 963.03C(c) | 030.30 |
| 030.40 | Citrate Insoluble Phosphorus as P2O5 | Automated, test portion 963.03 A-B | % | 978.01 | | 030.40 |
| 030.50 | Citrate Insoluble Phosphorus as P2O5 | ICP, test portion 963.03 A-B | % | | | 030.50 |
| 030.99 | Citrate Insoluble Phosphorus as P2O5 | Other | % | | | 030.99 |
| 040.10 | Indirect Available Phosphorus as P2O5 | Gravimetric Quinolinium | % | 960.02 | | 040.10 |
| 040.20 | Indirect Available Phosphorus as P2O5 | Spectrophotometric | % | 960.02 | | 040.20 |
| 040.30 | Indirect Available Phosphorus as P2O5 | Alkalimetric Quinolinium MolybdoP | % | 960.02 | | 040.30 |
| 040.40 | Indirect Available Phosphorus as P2O5 | Automated | % | 960.02 | | 040.40 |
| 040.50 | Indirect Available Phosphorus as P2O5 | ICP | % | | | 040.50 |
| 040.99 | Indirect Available Phosphorus as P2O5 | Other | % | | | 040.99 |
| 041.10 | Direct Available Phosphorus as P2O5 | Gravimetric Quinolinium | % | 960.03 | Prep as 960.03B, Detect as 960.03E | 041.10 |
| 041.11 | Direct Available Phosphorus as P2O5 | Gravimetric Quinolinium, Citrate-EDTA Ext. | % | | Prep as 993.31C, Detect as 960.03E | n/a |
| 041.20 | Direct Available Phosphorus as P2O5 | Spectrophotometric | % | 960.03 | Prep as 960.03B, Detect as 960.03D | 041.20 |
| 041.21 | Direct Available Phosphorus as P2O5 | Spectrophotometric, Citrate-EDTA Ext. | % | | Prep as 993.31C, Detect as 960.03D | n/a |
| 041.30 | Direct Available Phosphorus as P2O5 | Alkalimetric Quinolinium MolybdoP | % | 960.03 | Prep as 960.03B, Detect as 960.03C | 041.30 |
| 041.31 | Direct Available Phosphorus as P2O5 | Alkalimetric Quinolinium MolybdoP, Citrate-EDTA Ext. | % | | Prep as 993.31C, Detect as 960.03C | n/a |
| 041.40 | Direct Available Phosphorus as P2O5 | Automated | % | 978.01 | | 041.40 |
| 041.50 | Direct Available Phosphorus as P2O5 | ICP | % | | | 041.50 |
| 041.51 | Direct Available Phosphorus as P2O5 | ICP, Citrate-EDTA Ext. | % | | ICP:Bartos et al.: JAOACI Vol. 97, No. 3, 2014, pg 687-699 | 041.50 |
| 041.60 | Direct Available Phosphorus as P2O5 | Citrate-EDTA Ext. | % | 993.31 | | 041.60 |
| 041.99 | Direct Available Phosphorus as P2O5 | Other | % | | | 041.99 |
| 042.10 | Water Soluble OrthoP as P2O5 | Spectrophotometric | % | 970.01 | | 042.10 |
| 042.99 | Water Soluble OrthoP as P2O5 | Other | % | | | 042.99 |
| 043.99 | Polyphosphate | Other | % | | | 043.99 |
| 048.10 | Water Soluble Phosphorus as P2O5 | Gravimetric Quinolinium | % | 962.03 | | 048.10 |
| 048.20 | Water Soluble Phosphorus as P2O5 | Spectrophotometric | % | 970.01 | | 048.20 |
| 048.30 | Water Soluble Phosphorus as P2O5 | Alkalimetric Quinolinium MolybdoP | % | 962.04 | | 048.30 |
| 048.40 | Water Soluble Phosphorus as P2O5 | Automated | % | | | n/a |
| 048.50 | Water Soluble Phosphorus as P2O5 | ICP | % | | | 048.50 |
| 048.99 | Water Soluble Phosphorus as P2O5 | Other | % | | | 048.99 |
| 050.00 | Soluble Potassium as K2O | STPB Oxalate | % | 958.02 | | 050.00 |
| 050.10 | Soluble Potassium as K2O | STPB Citrate | % | 969.04 | | 050.10 |
| 050.30 | Soluble Potassium as K2O | AA (Oxalate) | % | | Prep as 958.02, Detect w/AA | 050.30 |
| 050.31 | Soluble Potassium as K2O | AA (Citrate) | % | | Prep as 960.03B, Detect w/AA | 050.31 |
| 050.32 | Soluble Potassium as K2O | AA (Citrate-EDTA) | % | | Prep as 993.31, Detect w/AA | n/a |
| 050.50 | Soluble Potassium as K2O | ICP (Oxalate) | % | | Prep as 958.02, Detect w/ICP | 050.50 |
| 050.51 | Soluble Potassium as K2O | ICP (Citrate) | % | | Prep as 960.03B, Detect w/ICP | 050.51 |
| 050.52 | Soluble Potassium as K2O | ICP (Citrate-EDTA) | % | | ICP:Bartos et al.: JAOACI Vol. 97, No. 3, 2014, pg 687-699 | n/a |
| 050.60 | Soluble Potassium as K2O | Flame Photometric (Oxalate) | % | 983.02 | Prep as 983.02B(a) | 050.60 |
| 050.61 | Soluble Potassium as K2O | Flame Photometric (Citrate) | % | 983.02 | Prep as 983.02B(b) | 050.61 |
| 050.62 | Soluble Potassium as K2O | Flame Photometric (Citrate-EDTA) | % | 983.02 | Prep as 983.02B(c) | n/a |
| 050.99 | Soluble Potassium as K2O | Other | % | | | 050.99 |
| 060.00 | Water (Free) | Vacuum Oven | % | 965.08B | | 060.00 |
| 060.10 | Water (Free) | Vacuum Desiccation | % | 965.08A | | 060.10 |
| 060.20 | Water (Free) | Karl Fischer | % | 972.01 | | 060.20 |
| 060.30 | Water (Free) | AFPC No. 2B (105°C oven for 2 hours, 5g sample) | % | | | n/a |
| 060.99 | Water (Free) | Other | % | | | 060.99 |

| | | | | | | |
|--------|-----------------------------------|---|---|--------------|--|--------|
| 101.00 | Acid Soluble Calcium | AA, inorganic 965.09 | % | 965.09 | Prep as 965.09C(a) | 101.00 |
| 101.01 | Acid Soluble Calcium | AA, organic 965.09 | % | 965.09 | Prep as 965.09C(b) | 101.00 |
| 101.02 | Acid Soluble Calcium | AA, 965.09, test portion 2006.03A-C | % | | Prep as 2006.03, Detect as 965.09D | 101.00 |
| 101.03 | Acid Soluble Calcium | AA, 965.09, test portion 2006.03A-C w/dual acid | % | | Prep as 2006.03 w/9:3 HNO3:HCl, Detect as 965.09D | 101.00 |
| 101.30 | Acid Soluble Calcium | ICP, test portion inorganic 965.09 | % | | inorganic, Prep as 965.09C(a), Detect w/ICP | 101.30 |
| 101.31 | Acid Soluble Calcium | ICP, test portion organic 965.09 | % | | organic, Prep as 965.09C(b), Detect w/ICP | 101.30 |
| 101.32 | Acid Soluble Calcium | ICP, test portion 2006.03A-C | % | | Prep as 2006.03, Detect w/ICP | 101.30 |
| 101.33 | Acid Soluble Calcium | ICP, test portion 2006.03A-C, w/dual acid | % | | ICP: Webb et al.: JAOACI Vol. 97, No. 3, 2014 pg 700-711 | 101.30 |
| 101.70 | Acid Soluble Calcium | Titrimetric | % | 945.03 | | 101.70 |
| 101.99 | Acid Soluble Calcium | Other | % | | | 101.99 |
| 121.00 | Acid Soluble Magnesium | AA, inorganic 965.09 | % | 965.09 | Prep as 965.09C(a) | 121.00 |
| 121.01 | Acid Soluble Magnesium | AA, organic 965.09 | % | 965.09 | Prep as 965.09C(b) | 121.00 |
| 121.02 | Acid Soluble Magnesium | AA, 965.09, test portion 2006.03A-C | % | | Prep as 2006.03, Detect as 965.09D | 121.00 |
| 121.03 | Acid Soluble Magnesium | AA, 965.09, test portion 2006.03A-C w/dual acid | % | | Prep as 2006.03 w/9:3 HNO3:HCl, Detect as 965.09D | 121.00 |
| 121.30 | Acid Soluble Magnesium | ICP, test portion inorganic 965.09 | % | | inorganic, Prep as 965.09C(a), Detect w/ICP | 121.30 |
| 121.31 | Acid Soluble Magnesium | ICP, test portion organic 965.09 | % | | organic, Prep as 965.09C(b), Detect w/ICP | 121.30 |
| 121.32 | Acid Soluble Magnesium | ICP, test portion 2006.03A-C | % | | Prep as 2006.03, Detect w/ICP | 121.30 |
| 121.33 | Acid Soluble Magnesium | ICP, test portion 2006.03A-C, w/dual acid | % | | ICP: Webb et al.: JAOACI Vol. 97, No. 3, 2014 pg 700-711 | 121.30 |
| 121.70 | Acid Soluble Magnesium | Titrimetric (EDTA) | % | 964.01 | Titrimetric | 121.70 |
| 121.99 | Acid Soluble Magnesium | Other | % | | | 121.99 |
| 131.00 | Water Soluble Magnesium | AA | % | 965.09 | AA | 131.00 |
| 131.30 | Water Soluble Magnesium | ICP | % | | ICP | 131.30 |
| 131.70 | Water Soluble Magnesium | Titrimetric (EDTA) | % | 937.02 | Titrimetric | 131.70 |
| 131.99 | Water Soluble Magnesium | Other | % | | | 131.99 |
| 143.00 | Elemental Sulfur | Gravimetric Sulfur - carbon disulfide soluble sulfur | % | | Prep and Detect in 980.02a only elemental S | 144.01 |
| 143.99 | Elemental Sulfur | Other | % | | | 144.99 |
| 145.00 | Sulfate Sulfur, HCl soluble | Gravimetric Sulfur - sulfate form | % | | Prep and Detect in 980.02a only sulfate | 144.01 |
| 145.99 | Sulfate Sulfur, HCl soluble | Other | % | | | 144.99 |
| 146.00 | Total Sulfur in Liquid | Gravimetric - sulfate, sulfite, thiosulfate, and elemental | % | 980.02b | | 144.02 |
| 146.99 | Total Sulfur in Liquid | Other | % | | | 144.99 |
| 147.00 | Total Sulfur in Urea/Formulations | Gravimetric | % | 980.02c | Total S in sulfur-coated urea and S formulations | 144.03 |
| 147.99 | Total Sulfur in Urea/Formulations | Other (Identify) | % | | | 144.99 |
| 148.00 | Total Sulfur | Combustion | % | | Combustion: Bernius et al.: JAOACI Vol. 97, No. 3, 2014 pg 731-735 | n/a |
| 148.01 | Total Sulfur | Gravimetric - sulfate and elemental | % | 980.02a | | 144.01 |
| 148.02 | Total Sulfur | Turbidimetric, w/Br digestion, modification of JAOAC 63.845 | % | JAOAC 63.845 | Prep with bromine digestion, Detect as JAOAC 63.845 | 144.50 |
| 148.03 | Total Sulfur | Spectrometric, w/Br digestion | % | | | 144.70 |
| 148.04 | Total Sulfur | ICP, w/Br digestion | % | | | n/a |
| 148.05 | Total Sulfur | Thermotitration, w/Br digestion | % | | | n/a |
| 148.06 | Total Sulfur | Ion Exchange, w/Br digestion | % | | | n/a |
| 148.07 | Total Sulfur | ICP, test portion as in 2006.03 modified w/9:3 HNO3:HCl | % | | | n/a |
| 148.99 | Total Sulfur | Other | % | | | 144.99 |
| 149.02 | Sulfur - HNO3 soluble | Turbidimetric, modification of JAOAC 63.845 | % | | | n/a |
| 149.03 | Sulfur - HNO3 soluble | Spectrometric | % | | | n/a |
| 149.04 | Sulfur - HNO3 soluble | ICP | % | | | n/a |
| 149.05 | Sulfur - HNO3 soluble | Thermotitration | % | | | n/a |
| 149.06 | Sulfur - HNO3 soluble | Ion Exchange | % | | | n/a |
| 149.99 | Sulfur - HNO3 soluble | Other | % | | | 144.99 |

| | | | | | | |
|--------|------------------------|---|-----|--------------|--|--------|
| 151.00 | Acid Soluble Arsenic | AA, test portion 2006.03 modified w/dual acid | ppm | | Prep as in 2006.03 mod w/9:3 HNO3:HCl, Detect w/AA | 151.00 |
| 151.30 | Acid Soluble Arsenic | ICP | ppm | | | 151.30 |
| 151.32 | Acid Soluble Arsenic | ICP, 2006.03 | ppm | 2006.03 | | 151.30 |
| 151.33 | Acid Soluble Arsenic | ICP, 2006.03 modified w/dual acid | ppm | | ICP: Webb et al.: JAOACI Vol. 97, No. 3, 2014 pg 700-711 | 151.30 |
| 151.34 | Acid Soluble Arsenic | ICP, EPA 3050B/6010C | ppm | | Prep as EPA 3050B, Detect as 6010C | 151.30 |
| 151.99 | Acid Soluble Arsenic | Other | ppm | | | 151.99 |
| 165.00 | Acid Soluble Boron | Spectrophotometric | % | 982.01 | Spectrophotometric | 165.00 |
| 165.30 | Acid Soluble Boron | ICP, test portion in 982.01 | % | | Prep as in 982.01, Detect w/ICP | 165.30 |
| 165.70 | Acid Soluble Boron | Titrimetric | % | 949.02 | Titrimetric | 165.70 |
| 165.99 | Acid Soluble Boron | Other | % | | | 165.99 |
| 171.00 | Water Soluble Boron | AA, JAOAC 52.950 | % | JAOAC 52.950 | | 171.00 |
| 171.10 | Water Soluble Boron | Spectrophotometric | % | 982.01 | | 171.10 |
| 171.70 | Water Soluble Boron | Titrimetric | % | 949.03 | | 171.70 |
| 171.99 | Water Soluble Boron | Other | % | | | 171.99 |
| 181.00 | Acid Soluble Cadmium | AA, test portion 2006.03 modified w/dual acid | ppm | | Prep as in 2006.03 mod w/9:3 HNO3:HCl, Detect w/AA | 181.00 |
| 181.30 | Acid Soluble Cadmium | ICP | ppm | | | 181.30 |
| 181.32 | Acid Soluble Cadmium | ICP, 2006.03 | ppm | 2006.03 | | 181.30 |
| 181.33 | Acid Soluble Cadmium | ICP, 2006.03 modified w/dual acid | ppm | | ICP: Webb et al.: JAOACI Vol. 97, No. 3, 2014 pg 700-711 | 181.30 |
| 181.34 | Acid Soluble Cadmium | ICP, EPA 3050B/6010C | ppm | | Prep as EPA 3050B, Detect as 6010C | 181.30 |
| 181.99 | Acid Soluble Cadmium | Other | ppm | | | 181.99 |
| 190.00 | Water Soluble Chlorine | Titrimetric | % | 928.02 | Titrimetric | 190.00 |
| 190.99 | Water Soluble Chlorine | Other | % | | | 190.99 |
| 191.00 | Acid Soluble Chromium | AA, test portion 2006.03 modified w/dual acid | ppm | | Prep as in 2006.03 mod w/9:3 HNO3:HCl, Detect w/AA | 191.00 |
| 191.30 | Acid Soluble Chromium | ICP | ppm | | | 191.30 |
| 191.32 | Acid Soluble Chromium | ICP, 2006.03 | ppm | 2006.03 | | 191.30 |
| 191.33 | Acid Soluble Chromium | ICP, 2006.03 modified w/dual acid | ppm | | ICP: Webb et al.: JAOACI Vol. 97, No. 3, 2014 pg 700-711 | 191.30 |
| 191.34 | Acid Soluble Chromium | ICP, EPA 3050B/6010C | ppm | | Prep as EPA 3050B, Detect as 6010C | 191.30 |
| 191.99 | Acid Soluble Chromium | Other | ppm | | | 191.99 |
| 202.00 | Acid Soluble Cobalt | AA, test portion 2006.03 modified w/dual acid | ppm | | Prep as in 2006.03 mod w/9:3 HNO3:HCl, Detect w/AA | 202.00 |
| 202.20 | Acid Soluble Cobalt | Colorimetric | ppm | 965.11 | Colorimetric | 202.20 |
| 202.30 | Acid Soluble Cobalt | ICP | ppm | | | 202.30 |
| 202.32 | Acid Soluble Cobalt | ICP, 2006.03 | ppm | 2006.03 | | 202.30 |
| 202.33 | Acid Soluble Cobalt | ICP, 2006.03 modified w/dual acid | ppm | | ICP: Webb et al.: JAOACI Vol. 97, No. 3, 2014 pg 700-711 | 202.30 |
| 202.34 | Acid Soluble Cobalt | ICP, EPA 3050B/6010C | ppm | | Prep as EPA 3050B, Detect as 6010C | 202.30 |
| 202.99 | Acid Soluble Cobalt | Other | ppm | | | 202.99 |
| 221.00 | Acid Soluble Copper | AA, inorganic 965.09 | % | 965.09 | Prep as 965.09C(a) | 221.00 |
| 221.01 | Acid Soluble Copper | AA, organic 965.09 | % | 965.09 | Prep as 965.09C(b) | 221.00 |
| 221.02 | Acid Soluble Copper | AA, 965.09, test portion 2006.03A-C | % | | Prep as 2006.03, Detect as 965.09D | 221.00 |
| 221.03 | Acid Soluble Copper | AA, 965.09, test portion 2006.03A-C w/dual acid | % | | Prep as 2006.03 w/9:3 HNO3:HCl, Detect as 965.09D | 221.00 |
| 221.10 | Acid Soluble Copper | Titrimetric | % | 942.01 | Colorimetric | 221.10 |
| 221.30 | Acid Soluble Copper | ICP, test portion inorganic 965.09 | % | | inorganic, Prep as 965.09C(a), Detect w/ICP | 222.30 |
| 221.31 | Acid Soluble Copper | ICP, test portion organic 965.09 | % | | organic, Prep as 965.09C(b), Detect w/ICP | 222.30 |
| 221.32 | Acid Soluble Copper | ICP, test portion 2006.03A-C | % | | Prep as 2006.03, Detect w/ICP | 221.30 |
| 221.33 | Acid Soluble Copper | ICP, test portion 2006.03A-C, w/dual acid | % | | ICP: Webb et al.: JAOACI Vol. 97, No. 3, 2014 pg 700-711 | 221.30 |
| 221.99 | Acid Soluble Copper | Other | % | | | 221.99 |

| | | | | | | |
|--------|-------------------------|---|-----|---------|---|--------|
| 241.00 | Acid Soluble Iron | AA, inorganic 965.09 | % | 965.09 | Prep as 965.09C(a) | 241.00 |
| 241.01 | Acid Soluble Iron | AA, organic 965.09 | % | 965.09 | Prep as 965.09C(b) | 241.00 |
| 241.02 | Acid Soluble Iron | AA, 965.09, test portion 2006.03A-C | % | | Prep as 2006.03, Detect as 965.09D | 241.00 |
| 241.03 | Acid Soluble Iron | AA, 965.09, test portion 2006.03A-C w/dual acid | % | | Prep as 2006.03 w/9:3 HNO ₃ :HCl, Detect as 965.09D | 241.00 |
| 241.20 | Acid Soluble Iron | Colorimetric | % | | Colorimetric | 241.20 |
| 241.30 | Acid Soluble Iron | ICP, test portion inorganic 965.09 | % | | inorganic, Prep as 965.09C(a), Detect w/ICP | 241.30 |
| 241.31 | Acid Soluble Iron | ICP, test portion organic 965.09 | % | | organic, Prep as 965.09C(b), Detect w/ICP | 241.30 |
| 241.32 | Acid Soluble Iron | ICP, test portion 2006.03A-C | % | | Prep as 2006.03, Detect w/ICP | 241.30 |
| 241.33 | Acid Soluble Iron | ICP, test portion 2006.03A-C, w/dual acid | % | | ICP: Webb et al.: JAOACI Vol. 97, No. 3, 2014 pg 700-711 | 241.30 |
| 241.70 | Acid Soluble Iron | Titrimetric | % | 967.01 | Titrimetric | 241.70 |
| 241.99 | Acid Soluble Iron | Other | % | | | 241.99 |
| 251.00 | Acid Soluble Lead | AA, test portion 2006.03 modified w/dual acid | ppm | | Prep as in 2006.03 mod w/9:3 HNO ₃ :HCl, Detect w/AA | 251.00 |
| 251.30 | Acid Soluble Lead | ICP | ppm | | | 251.30 |
| 251.32 | Acid Soluble Lead | ICP, 2006.03 | ppm | 2006.03 | | 251.30 |
| 251.33 | Acid Soluble Lead | ICP, 2006.03 modified w/dual acid | ppm | | ICP: Webb et al.: JAOACI Vol. 97, No. 3, 2014 pg 700-711 | 251.30 |
| 251.34 | Acid Soluble Lead | ICP, EPA 3050B/6010C | ppm | | Prep as EPA 3050B, Detect as 6010C | 251.30 |
| 251.99 | Acid Soluble Lead | Other | ppm | | | 251.99 |
| 261.00 | Acid Soluble Manganese | AA, Mn ²⁺ only | % | 972.02a | Mn ²⁺ only | 261.00 |
| 261.11 | Acid Soluble Manganese | AA, total Mn | % | 972.02b | total Mn | 261.11 |
| 261.12 | Acid Soluble Manganese | AA, inorganic 965.09 | % | 965.09 | Prep as 965.09C(a) | n/a |
| 261.13 | Acid Soluble Manganese | AA, organic 965.09 | % | 965.09 | Prep as 965.09C(b) | n/a |
| 261.14 | Acid Soluble Manganese | AA, 965.09, test portion 2006.03A-C | % | | Prep as 2006.03, Detect as 965.09D | n/a |
| 261.15 | Acid Soluble Manganese | AA, 965.09, test portion 2006.03A-C w/dual acid | % | | Prep as 2006.03 w/9:3 HNO ₃ :HCl, Detect as 965.09D | n/a |
| 261.30 | Acid Soluble Manganese | ICP, test portion 972.02a | % | | Prep as 972.02a for Mn ²⁺ only, Detect w/ICP | 261.30 |
| 261.31 | Acid Soluble Manganese | ICP, test portion 972.02b | % | | Prep as 972.02b for total Mn, Detect w/ICP | 261.31 |
| 261.32 | Acid Soluble Manganese | ICP, test portion inorganic 965.09 | % | | inorganic, Prep as 965.09C(a), Detect w/ICP | n/a |
| 261.33 | Acid Soluble Manganese | ICP, test portion organic 965.09 | % | | organic, Prep as 965.09C(b), Detect w/ICP | n/a |
| 261.34 | Acid Soluble Manganese | ICP, test portion 2006.03A-C | % | | Prep as 2006.03, Detect w/ICP | n/a |
| 261.35 | Acid Soluble Manganese | ICP, test portion 2006.03A-C, w/dual acid | % | | ICP: Webb et al.: JAOACI Vol. 97, No. 3, 2014 pg 700-711 | n/a |
| 261.40 | Acid Soluble Manganese | Bismuthate | % | | Bismuthate | 261.40 |
| 261.50 | Acid Soluble Manganese | Spectrometric | % | 940.02 | Spectrometric | 261.50 |
| 261.99 | Acid Soluble Manganese | Other | % | | | 261.99 |
| 271.00 | Water Soluble Manganese | AA | % | 972.03 | AA | 271.00 |
| 271.30 | Water Soluble Manganese | ICP, Ext. 972.03 | % | | Prep as 972.03, Detect w/ICP | 271.30 |
| 271.99 | Water Soluble Manganese | Other | % | | | 271.99 |
| 281.00 | Acid Soluble Mercury | AA | ppm | | AA | 281.00 |
| 281.30 | Acid Soluble Mercury | ICP | ppm | | ICP | 281.30 |
| 281.99 | Acid Soluble Mercury | Other | ppm | | | 281.99 |
| 289.00 | Acid Soluble Molybdenum | AA, test portion 2006.03 modified w/dual acid | ppm | | Prep as in 2006.03 mod w/9:3 HNO ₃ :HCl, Detect w/AA | 289.00 |
| 289.30 | Acid Soluble Molybdenum | ICP | ppm | | | 289.30 |
| 289.32 | Acid Soluble Molybdenum | ICP, 2006.03 | ppm | 2006.03 | | 289.30 |
| 289.33 | Acid Soluble Molybdenum | ICP, 2006.03 modified w/dual acid | ppm | | ICP: Webb et al.: JAOACI Vol. 97, No. 3, 2014 pg 700-711 | 289.30 |
| 289.34 | Acid Soluble Molybdenum | ICP, EPA 3050B/6010C | ppm | | Prep as EPA 3050B, Detect as 6010C | 289.30 |
| 289.99 | Acid Soluble Molybdenum | Other | ppm | | | 289.99 |
| 291.00 | Acid Soluble Nickel | AA, test portion 2006.03 modified w/dual acid | ppm | | Prep as in 2006.03 mod w/9:3 HNO ₃ :HCl, Detect w/AA | 291.00 |
| 291.30 | Acid Soluble Nickel | ICP | ppm | | | 291.30 |
| 291.32 | Acid Soluble Nickel | ICP, 2006.03 | ppm | 2006.03 | | 291.30 |
| 291.33 | Acid Soluble Nickel | ICP, 2006.03 modified w/dual acid | ppm | | ICP: Webb et al.: JAOACI Vol. 97, No. 3, 2014 pg 700-711 | 291.30 |
| 291.34 | Acid Soluble Nickel | ICP, EPA 3050B/6010C | ppm | | Prep as EPA 3050B, Detect as 6010C | 291.30 |
| 291.99 | Acid Soluble Nickel | Other | ppm | | | 291.99 |

| | | | | | | |
|--------|-----------------------|---|-----|---------|--|--------|
| 301.00 | Acid Soluble Selenium | AA, test portion 2006.03 modified w/dual acid | ppm | | Prep as in 2006.03 mod w/9:3 HNO3:HCl, Detect w/AA | 301.00 |
| 301.30 | Acid Soluble Selenium | ICP | ppm | | | 301.30 |
| 301.32 | Acid Soluble Selenium | ICP, 2006.03 | ppm | 2006.03 | | 301.30 |
| 301.33 | Acid Soluble Selenium | ICP, 2006.03 modified w/dual acid | ppm | | ICP: Webb et al.: JAOACI Vol. 97, No. 3, 2014 pg 700-711 | 301.30 |
| 301.34 | Acid Soluble Selenium | ICP, EPA 3050B/6010C | ppm | | Prep as EPA 3050B, Detect as 6010C | 301.30 |
| 301.99 | Acid Soluble Selenium | Other | ppm | | | 301.99 |
| 311.00 | Sodium | AA | % | 983.04 | | 311.00 |
| 311.30 | Sodium | Flame Photometric | % | 974.01 | | 311.30 |
| 311.32 | Sodium | ICP, 2006.03 test portion | % | | | n/a |
| 311.33 | Sodium | ICP, 2006.03 modified w/dual acid | % | | ICP: Webb et al.: JAOACI Vol. 97, No. 3, 2014 pg 700-711 | n/a |
| 311.99 | Sodium | Other | % | | | 311.99 |
| 321.00 | Acid Soluble Zinc | AA, inorganic 965.09 | % | 965.09 | Prep as 965.09C(a) | 321.00 |
| 321.01 | Acid Soluble Zinc | AA, organic 965.09 | % | 965.09 | Prep as 965.09C(b) | 321.00 |
| 321.02 | Acid Soluble Zinc | AA, 965.09, test portion 2006.03A-C | % | | Prep as 2006.03, Detect as 965.09D | 321.00 |
| 321.03 | Acid Soluble Zinc | AA, 965.09, test portion 2006.03A-C w/dual acid | % | | Prep as 2006.03 w/9:3 HNO3:HCl, Detect as 965.09D | 321.00 |
| 321.10 | Acid Soluble Zinc | Gravimetric | % | 942.02 | | 321.10 |
| 321.20 | Acid Soluble Zinc | Zincon Ion Exchange | % | 973.01 | | 321.20 |
| 321.30 | Acid Soluble Zinc | ICP, test portion inorganic 965.09 | % | | inorganic, Prep as 965.09C(a), Detect w/ICP | 321.30 |
| 321.31 | Acid Soluble Zinc | ICP, test portion organic 965.09 | % | | organic, Prep as 965.09C(b), Detect w/ICP | 321.30 |
| 321.32 | Acid Soluble Zinc | ICP, test portion 2006.03A-C | % | | Prep as 2006.03, Detect w/ICP | 321.30 |
| 321.33 | Acid Soluble Zinc | ICP, test portion 2006.03A-C, w/dual acid | % | | ICP: Webb et al.: JAOACI Vol. 97, No. 3, 2014 pg 700-711 | 321.30 |
| 321.99 | Acid Soluble Zinc | Other | % | | | 321.99 |
| 325.00 | Water Soluble Zinc | AA | % | | | 325.00 |
| 325.10 | Water Soluble Zinc | Gravimetric | % | | | 325.10 |
| 325.30 | Water Soluble Zinc | ICP | % | | | 325.30 |
| 325.99 | Water Soluble Zinc | Other | % | | | 325.99 |