

Basaltic Pahoehoe Lava Nano-Pellet, pressed pellet diameter 13 mm (Standard for solid-state microanalysis)

Art. ID MY-BHVO-2-NP-LA-ICP-MS-13MM
Unit each (pressed pellet)
Deliverydetails No Dangerous Good /not restricted

Description

Pellet for LA-ICP-MS application /// The principle behind LA-ICP-MS (Laser Ablation - Inductively Coupled Plasma - Mass Spectrometry) involves a laser beam removing (ablating) material from a sample and analysing its chemical composition in a mass spectrometer

| Text/Information | Analyte/Parameter | CAS number | Concentration/Value | Unit | Method | Source |
|------------------|------------------------------------|-------------|---------------------|--------|--------|--------|
| | Na ₂ O | | 2,219 ± 0,048 | g/100g | | |
| | MgO | [1309-48-4] | 7,257 ± 0,042 | g/100g | | |
| | Al ₂ O ₃ | | 13,44 ± 0,06 | g/100g | | |
| | SiO ₂ | | 49,6 ± 0,14 | g/100g | | |
| | P ₂ O ₅ | | 0,2685 ± 0,005 | g/100g | | |
| | K ₂ O | | 0,513 ± 0,0037 | g/100g | | |
| | CaO | | 11,4 ± 0,06 | g/100g | | |
| | TiO ₂ | | 2,731 ± 0,018 | g/100g | | |
| | MnO | | 0,169 ± 0,0019 | g/100g | | |
| | Fe ₂ O ₃ (T) | | 12,39 ± 0,09 | g/100g | | |
| | Lithium (Li) | [7439-93-2] | 4,5 ± 0,085 | µg/g | | |
| | Beryllium (Be) | [7440-41-7] | 1,076 ± 0,046 | µg/g | | |
| | Scandium (Sc) | [7440-20-2] | 31,83 ± 0,34 | µg/g | | |
| | Vanadium (V) | [7440-62-2] | 318,2 ± 2,3 | µg/g | | |
| | Chromium (Cr) | [7440-47-3] | 287,2 ± 3,1 | µg/g | | |
| | Cobalt (Co) | [7440-48-4] | 44,89 ± 0,32 | µg/g | | |
| | Nickel (Ni) | [7440-02-0] | 119,8 ± 1,2 | µg/g | | |
| | Copper (Cu) | [7440-50-8] | 129,3 ± 1,4 | µg/g | | |
| | Zinc (Zn) | [7440-66-6] | 103,9 ± 1 | µg/g | | |
| | Gallium (Ga) | [7440-55-3] | 21,37 ± 0,2 | µg/g | | |
| | Germanium (Ge) | [7440-56-4] | 1,623 ± 0,039 | µg/g | | |
| | Arsenic (As) | [7440-38-2] | 0,7 ± 0,11 | µg/g | | |
| | Selenium (Se) | [7782-49-2] | 0,18 ± 0,04 | µg/g | | |
| | Bromine (Br) | [7726-95-6] | 0,3 ± 0,1 | µg/g | | |
| | Rubidium (Rb) | [7440-17-7] | 9,261 ± 0,096 | µg/g | | |
| | Strontium (Sr) | [7440-24-6] | 394,1 ± 1,7 | µg/g | | |
| | Yttrium (Y) | [7440-65-5] | 25,91 ± 0,28 | µg/g | | |

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|-------------------|-------------|---------------------|------|
| Zirconium (Zr) | [7440-67-7] | 171,2 ± 1,3 | µg/g |
| Niobium (Nb) | [7440-03-1] | 18,1 ± 0,2 | µg/g |
| Molybdenum (Mo) | [7439-98-7] | 4,07 ± 0,16 | µg/g |
| Ruthenium (Ru) | [7440-18-8] | 0,000125 ± 0,000018 | µg/g |
| Cadmium (Cd) | [7440-43-9] | 0,152 ± 0,049 | µg/g |
| Indium (In) | [7440-74-6] | 0,117 ± 0,045 | µg/g |
| Tin (Sn) | [7440-31-5] | 1,776 ± 0,059 | µg/g |
| Antimony (Sb) | [7440-36-0] | 0,1034 ± 0,0079 | µg/g |
| Caesium (Cs) | [7440-46-2] | 0,0996 ± 0,0022 | µg/g |
| Barium (Ba) | [7440-39-3] | 130,9 ± 1 | µg/g |
| Lanthanum (La) | [7439-91-0] | 15,2 ± 0,08 | µg/g |
| Cerium (Ce) | [7440-45-1] | 37,53 ± 0,19 | µg/g |
| Praseodymium (Pr) | [7440-10-0] | 5,339 ± 0,028 | µg/g |
| Neodymium (Nd) | [7440-00-8] | 24,27 ± 0,25 | µg/g |
| Samarium (Sm) | [7440-19-9] | 6,023 ± 0,057 | µg/g |
| Europium (Eu) | [7440-53-1] | 2,043 ± 0,012 | µg/g |
| Gadolinium (Gd) | [7440-54-2] | 6,207 ± 0,038 | µg/g |
| Terbium (Tb) | [7440-27-9] | 0,9392 ± 0,006 | µg/g |
| Dysprosium (Dy) | [7429-91-6] | 5,28 ± 0,028 | µg/g |
| Holmium (Ho) | [7440-60-0] | 0,9887 ± 0,0053 | µg/g |
| Erbium (Er) | [7440-52-0] | 2,511 ± 0,014 | µg/g |
| Thulium (Tm) | [7440-30-4] | 0,3349 ± 0,0031 | µg/g |
| Ytterbium (Yb) | [7440-64-4] | 1,994 ± 0,027 | µg/g |
| Lutetium (Lu) | [7439-94-3] | 0,2754 ± 0,0024 | µg/g |
| Hafnium (Hf) | [7440-58-6] | 4,47 ± 0,025 | µg/g |
| Tantalum (Ta) | [7440-25-7] | 1,154 ± 0,019 | µg/g |
| Tungsten (W) | [7440-33-7] | 0,251 ± 0,035 | µg/g |
| Rhenium (Re) | [7440-15-5] | 0,000543 ± 0,000029 | µg/g |
| Osmium (Os) | [7440-04-2] | 0,000111 ± 0,000021 | µg/g |
| Iridium (Ir) | [7439-88-5] | 0,00007 ± 0,000011 | µg/g |
| Platinum (Pt) | [7440-06-4] | 0,0089 ± 0,0016 | µg/g |
| Thallium (Tl) | [7440-28-0] | 0,0224 ± 0,0015 | µg/g |
| Lead (Pb) | [7439-92-1] | 1,653 ± 0,038 | µg/g |
| Bismuth (Bi) | [7440-69-9] | 0,0148 ± 0,0043 | µg/g |
| Thorium (Th) | [7440-29-1] | 1,224 ± 0,016 | µg/g |
| Uranium (U) | [7440-61-1] | 0,412 ± 0,035 | µg/g |