

Sediment Nano-Pellet, pressed pellet, diameter 10 mm (Standard for solid-state microanalysis)

Art. ID MY-SdAR-L2-NP-LA-ICP-MS-10MM
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 | | 2,66 ± 0,03 | g/100g | | |
| | Al ₂ O ₃ | | 11,58 ± 0,05 | g/100g | | |
| | SiO ₂ | | 74,48 ± 0,13 | g/100g | | |
| | P ₂ O ₅ | | 0,08 ± 0,002 | g/100g | | |
| | K ₂ O | | 4,1 ± 0,02 | g/100g | | |
| | CaO | | 1,06 ± 0,01 | g/100g | | |
| | TiO ₂ | | 0,62 ± 0,004 | g/100g | | |
| | MnO | | 0,099 ± 0,002 | g/100g | | |
| | Fe ₂ O ₃ (T) | | 3,64 ± 0,02 | g/100g | | |
| | Lithium (Li) | [7439-93-2] | 11,8 ± 0,6 | µg/g | | |
| | Beryllium (Be) | [7440-41-7] | 3,38 ± 0,13 | µg/g | | |
| | Scandium (Sc) | [7440-20-2] | 5,6 ± 0,3 | µg/g | | |
| | Vanadium (V) | [7440-62-2] | 35 ± 0,9 | µg/g | | |
| | Chromium (Cr) | [7440-47-3] | 26 ± 2 | µg/g | | |
| | Cobalt (Co) | [7440-48-4] | 5,4 ± 0,2 | µg/g | | |
| | Nickel (Ni) | [7440-02-0] | 14,3 ± 0,9 | µg/g | | |
| | Copper (Cu) | [7440-50-8] | 50,8 ± 1,1 | µg/g | | |
| | Zinc (Zn) | [7440-66-6] | 201 ± 3 | µg/g | | |
| | Rubidium (Rb) | [7440-17-7] | 120 ± 2 | µg/g | | |
| | Strontium (Sr) | [7440-24-6] | 150 ± 2 | µg/g | | |
| | Yttrium (Y) | [7440-65-5] | 55,5 ± 2 | µg/g | | |
| | Zirconium (Zr) | [7440-67-7] | 626 ± 14 | µg/g | | |
| | Molybdenum (Mo) | [7439-98-7] | 3,7 ± 0,2 | µg/g | | |
| | Antimony (Sb) | [7440-36-0] | 21,8 ± 0,8 | µg/g | | |
| | Caesium (Cs) | [7440-46-2] | 1,14 ± 0,04 | µg/g | | |
| | Lanthanum (La) | [7439-91-0] | 67,9 ± 1,4 | µg/g | | |
| | Praseodymium (Pr) | [7440-10-0] | 16,2 ± 0,4 | µg/g | | |

| | | | |
|-----------------|-------------|---------------|------|
| Neodymium (Nd) | [7440-00-8] | 60,3 ± 1,5 | µg/g |
| Samarium (Sm) | [7440-19-9] | 11,5 ± 0,3 | µg/g |
| Europium (Eu) | [7440-53-1] | 1,43 ± 0,06 | µg/g |
| Gadolinium (Gd) | [7440-54-2] | 9,73 ± 0,22 | µg/g |
| Terbium (Tb) | [7440-27-9] | 1,58 ± 0,07 | µg/g |
| Dysprosium (Dy) | [7429-91-6] | 10 ± 0,3 | µg/g |
| Holmium (Ho) | [7440-60-0] | 2,12 ± 0,09 | µg/g |
| Erbium (Er) | [7440-52-0] | 6,19 ± 0,55 | µg/g |
| Thulium (Tm) | [7440-30-4] | 0,95 ± 0,03 | µg/g |
| Ytterbium (Yb) | [7440-64-4] | 6,24 ± 0,13 | µg/g |
| Lutetium (Lu) | [7439-94-3] | 0,945 ± 0,021 | µg/g |
| Tantalum (Ta) | [7440-25-7] | 3,81 ± 0,22 | µg/g |
| Thallium (Tl) | [7440-28-0] | 0,99 ± 0,05 | µg/g |
| Lead (Pb) | [7439-92-1] | 183 ± 4 | µg/g |
| Bismuth (Bi) | [7440-69-9] | 0,26 ± 0,02 | µg/g |
| Thorium (Th) | [7440-29-1] | 22 ± 0,7 | µg/g |
| Uranium (U) | [7440-61-1] | 3,34 ± 0,12 | µg/g |