

Sediment Nano-Pellet, pressed pellet, diameter 20 mm (Standard for solid-state microanalysis)

Art. ID MY-SdAR-H1-NP-LA-ICP-MS-LIBS-20MM
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 |
|------------------|------------------------------------|-------------|---------------------|--------|--------|--------|
| | MgO | [1309-48-4] | 1,53 ± 0,02 | g/100g | | |
| | Al ₂ O ₃ | | 11,83 ± 0,08 | g/100g | | |
| | SiO ₂ | | 65,45 ± 0,22 | g/100g | | |
| | P ₂ O ₅ | | 0,185 ± 0,003 | g/100g | | |
| | K ₂ O | | 4,17 ± 0,03 | g/100g | | |
| | CaO | | 1,46 ± 0,01 | g/100g | | |
| | TiO ₂ | | 0,56 ± 0,005 | g/100g | | |
| | MnO | | 0,515 ± 0,007 | g/100g | | |
| | Fe ₂ O ₃ (T) | | 6,45 ± 0,05 | g/100g | | |
| | Lithium (Li) | [7439-93-2] | 50,5 ± 2,5 | µg/g | | |
| | Scandium (Sc) | [7440-20-2] | 8,2 ± 0,3 | µg/g | | |
| | Vanadium (V) | [7440-62-2] | 73,2 ± 2,1 | µg/g | | |
| | Cobalt (Co) | [7440-48-4] | 55,6 ± 1,7 | µg/g | | |
| | Nickel (Ni) | [7440-02-0] | 234 ± 8 | µg/g | | |
| | Copper (Cu) | [7440-50-8] | 1170 ± 12 | µg/g | | |
| | Zinc (Zn) | [7440-66-6] | 3725 ± 60 | µg/g | | |
| | Gallium (Ga) | [7440-55-3] | 15,6 ± 0,7 | µg/g | | |
| | Rubidium (Rb) | [7440-17-7] | 154 ± 3 | µg/g | | |
| | Strontium (Sr) | [7440-24-6] | 182 ± 3 | µg/g | | |
| | Zirconium (Zr) | [7440-67-7] | 262 ± 3 | µg/g | | |
| | Caesium (Cs) | [7440-46-2] | 4,78 ± 0,24 | µg/g | | |
| | Barium (Ba) | [7440-39-3] | 866 ± 15 | µg/g | | |
| | Lanthanum (La) | [7439-91-0] | 44,9 ± 1,3 | µg/g | | |
| | Cerium (Ce) | [7440-45-1] | 89 ± 3 | µg/g | | |
| | Praseodymium (Pr) | [7440-10-0] | 10 ± 0,3 | µg/g | | |
| | Neodymium (Nd) | [7440-00-8] | 36,2 ± 1,2 | µg/g | | |
| | Samarium (Sm) | [7440-19-9] | 6,42 ± 0,13 | µg/g | | |

| | | | |
|-----------------|-------------|---------------|------|
| Europium (Eu) | [7440-53-1] | 1,25 ± 0,05 | µg/g |
| Gadolinium (Gd) | [7440-54-2] | 5,35 ± 0,25 | µg/g |
| Terbium (Tb) | [7440-27-9] | 0,78 ± 0,03 | µg/g |
| Dysprosium (Dy) | [7429-91-6] | 4,5 ± 0,21 | µg/g |
| Holmium (Ho) | [7440-60-0] | 0,91 ± 0,05 | µg/g |
| Erbium (Er) | [7440-52-0] | 2,67 ± 0,11 | µg/g |
| Thulium (Tm) | [7440-30-4] | 0,405 ± 0,014 | µg/g |
| Ytterbium (Yb) | [7440-64-4] | 2,66 ± 0,02 | µg/g |
| Lutetium (Lu) | [7439-94-3] | 0,41 ± 0,02 | µg/g |
| Tantalum (Ta) | [7440-25-7] | 1,41 ± 0,08 | µg/g |
| Thallium (Tl) | [7440-28-0] | 11,1 ± 0,7 | µg/g |
| Lead (Pb) | [7439-92-1] | 3895 ± 75 | µg/g |