Table S1

The list of standards used for quantitative analysis in the INCA Energy 450 microanalysis system (MIRA 3 LMU) in the laboratory of X-ray spectral analysis methods of IGM SB RAS

|  |  |  |  |
| --- | --- | --- | --- |
| Z | Elementsт | INCA450 MIRA | Analytical series |
| 5 | B | B | K |
| 6 | C | C | K |
| 7 | N | BN | K |
| 8 | O | Quartz | K |
| 9 | F | BaF2 | K |
| 11 | Na | Albite | K |
| 12 | Mg | Diopside | K |
| 13 | Al | Corundum | K |
| 14 | Si | Quartz | K |
| 15 | P | Ca2P2O7 | K |
| 16 | S | FeS2 | K |
| 17 | Cl | Cs2ReCl6 | K |
| 19 | K | Orthoclase | K |
| 20 | Ca | Diopside | K |
| 21 | Sc | Sc | K |
| 22 | Ti | Ti | K |
| 23 | V | V | K |
| 24 | Cr | Cr2O3 | K |
| 25 | Mn | Mn | K |
| 26 | Fe | Fe | K |
| 27 | Co | Co | K |
| 28 | Ni | Ni | K |
| 29 | Cu | Cu | K |
| 30 | Zn | Zn | K,L |
| 31 | Ga | GaAs | K,L |
| 32 | Ge | Ge | K,L |
| 33 | As | PtAs | L |
| 34 | Se | Se | L |
| 35 | Br | KBr | L |
| 37 | Rb | Rb2ReCl6 | L |
| 38 | Sr | SrF2 | L |
| 39 | Y | Y | L |
| 40 | Zr | Zr | L |
| 41 | Nb | Nb | L |
| 42 | Mo | Mo | L |
| 44 | Ru | Ru | L |
| 45 | Rh | Rh | L |
| 46 | Pd | Pd | L |
| 47 | Ag | Ag | L |
| 48 | Cd | Cd | L |
| 49 | In | InAs | L |
| 50 | Sn | Sn | L |
| 51 | Sb | Sb | L |
| 52 | Te | HgTe | L |
| 53 | I | I\*\* | L |
| 55 | Cs | Cs2ReCl6 | L |
| 56 | Ba | BaF2 | L |
| 57 | La | LaPO4 | L |
| 58 | Ce | CePO4 | L |
| 59 | Pr | PrPO4 | L |
| 60 | Nd | NdPO4 | L |
| 62 | Sm | SmPO4 | L |
| 63 | Eu | EuPO4 | L |
| 64 | Gd | GdPO4 | L |
| 65 | Tb | TbPO4 | L |
| 66 | Dy | DyPO4 | L |
| 67 | Ho | HoPO4 | L |
| 68 | Er | ErPO4 | L |
| 69 | Tm | TmPO4 | L |
| 70 | Yb | YbPO4 | L |
| 71 | Lu | LuPO4 | L |
| 72 | Hf | Hf | L |
| 73 | Ta | Ta | L |
| 74 | W | W | L |
| 75 | Re | Re | L |
| 76 | Os | Os | L/M |
| 77 | Ir | Ir | L,M |
| 78 | Pt | Pt | L,M |
| 79 | Au | Au | L,M |
| 80 | Hg | HgTe | L,M |
| 81 | Tl | Tl\*\* | L,M |
| 82 | Pb | Pb2P2O7 | L,M |
| 83 | Bi | Bi | L,M |
| 90 | Th | ThO2 | M |
| 92 | U | UO2 | M |

Note: \*\* – calculated data for standards from the INCAEnergy standards file supplied by the company (correctness is not guaranteed).