

Appendix 1

The XRF analysis of the referenced Bone ash sample

| No | Component | Result | Unit | Statistical error | Detection limit | Quantitation limit |
|----|--------------------------------|--------|-------|-------------------|-----------------|--------------------|
| 1 | CaO | 73.1 | mass% | 0.0687 | 0.0031 | 0.0092 |
| 2 | P ₂ O ₅ | 22.9 | mass% | 0.019 | 0.0246 | 0.0738 |
| 3 | SiO ₂ | 1.35 | mass% | 0.0077 | 0.0152 | 0.0457 |
| 4 | Na ₂ O | 0.796 | mass% | 0.0822 | 0.226 | 0.678 |
| 5 | MgO | 0.564 | mass% | 0.0124 | 0.0251 | 0.0753 |
| 6 | Zt | 0.409 | mass% | 0.0026 | 0 | 0.0025 |
| 7 | Al ₂ O ₃ | 0.291 | mass% | 0.0042 | 0.0073 | 0.0219 |
| 8 | Ba | 0.176 | mass% | 0.0022 | 0.0019 | 0.0057 |
| 9 | K ₂ O | 0.157 | mass% | 0.0024 | 0.0015 | 0.0046 |
| 10 | SO ₃ | 0.131 | mass% | 0.0011 | 0.0016 | 0.0047 |
| 11 | Zn | 0.0293 | mass% | 0.0004 | 0.0003 | 0.001 |
| 12 | Sm | 0.028 | mass% | 0.0017 | 0.002 | 0.006 |
| 13 | Eu | 0.0236 | mass% | 0.0015 | 0.0012 | 0.0036 |
| 14 | Sr | 0.0172 | mass% | 0.0002 | 0.0003 | 0.0009 |
| 15 | Fe ₂ O ₃ | 0.014 | mass% | 0.0009 | 0.002 | 0.0059 |
| 16 | Cl | 0.0128 | mass% | 0.0002 | 0.0002 | 0.0013 |
| 17 | V | 0.0025 | mass% | 0.0008 | 0.002 | 0.0071 |
| 18 | Sn | ND | mass% | 0.0002 | 0.0004 | 0.002 |
| 19 | Dy | 0.0016 | mass% | 0.0009 | 0.0024 | 0.0016 |
| 20 | Ta | 0.0013 | mass% | 0.0003 | 0.0008 | 0.0012 |
| 21 | Re | 0.0012 | mass% | 0.0002 | 0.0005 | 0.0006 |
| 22 | Au | 0.001 | mass% | 0.0002 | 0.0004 | 0.002 |
| 23 | Fr | 0.001 | mass% | 0.0001 | 0.0002 | 0.0011 |
| 24 | Te | 0.001 | mass% | 0.0002 | 0 | 0.0002 |
| 25 | Cu | 0.0009 | mass% | 0.0001 | 0.0004 | 0.02007 |
| 26 | Rb | 0.0007 | mass% | <0.0001 | 0.0001 | 0.135 |
| 27 | TiO ₂ | ND | mass% | 0.0023 | 0.0069 | 0.0003 |
| 28 | Sc | ND | mass% | 0.015 | 0.045 | |
| 29 | Br | 0.0002 | mass% | <0.0001 | 0.0001 | |
| 30 | Cr | ND | mass% | | | |
| 31 | Co | ND | mass% | | | |
| 32 | Ni | ND | mass% | | | |
| 33 | Ga | ND | mass% | | | |
| 34 | As | ND | mass% | | | |
| 35 | Y | ND | mass% | | | |
| 36 | Nb | ND | mass% | | | |
| 37 | Ag | ND | mass% | | | |
| 38 | Cd | ND | mass% | | | |
| 39 | La | ND | mass% | | | |

| | | | | | | |
|----|-----|----|-------|--|--|--|
| 40 | Ce | ND | mass% | | | |
| 41 | Hf | ND | mass% | | | |
| 42 | W | ND | mass% | | | |
| 43 | Pt | ND | mass% | | | |
| 44 | Hg | ND | mass% | | | |
| 45 | Pb | ND | mass% | | | |
| 46 | Bi | ND | mass% | | | |
| 47 | Th | ND | mass% | | | |
| 48 | U | ND | mass% | | | |
| 49 | MnO | ND | mass% | | | |
| 50 | F | 0 | mass% | | | |
| 51 | Mo | ND | mass% | | | |
| 52 | Ru | ND | mass% | | | |
| 53 | Rh | ND | mass% | | | |
| 54 | Pd | ND | mass% | | | |
| 55 | Tc | ND | mass% | | | |
| 56 | In | ND | mass% | | | |
| 57 | Sb | ND | mass% | | | |
| 58 | Se | ND | mass% | | | |
| 59 | Pr | ND | mass% | | | |
| 60 | Nd | ND | mass% | | | |
| 61 | Pm | ND | mass% | | | |
| 62 | Gd | ND | mass% | | | |
| 63 | Tb | ND | mass% | | | |
| 64 | Ho | ND | mass% | | | |
| 65 | Er | ND | mass% | | | |
| 66 | Tm | ND | mass% | | | |
| 67 | Tl | ND | mass% | | | |
| 68 | Os | ND | mass% | | | |
| 69 | Ir | ND | mass% | | | |
| 70 | Cs | ND | mass% | | | |
| 71 | Ra | ND | mass% | | | |
| 72 | Po | ND | mass% | | | |
| 73 | Ge | ND | mass% | | | |
| 74 | I | ND | mass% | | | |