



Himalayan 84 Trace Minerals

From the book, *Water & Salt, The Essence of Life*

by Dr. Barbara Hendel MD and Peter Ferreira

Vanadium V 23 0.06 ppm AAS
Chromium Cr 24 0.05 ppm AAS
Manganese Mn 25 0.27 ppm AAS
Iron Fe 26 38.9 ppm AAS
Cobalt Co 27 0.60 ppm AAS
Nickel Ni 28 0.13 ppm AAS
Copper Cu 29 0.56 ppm AAS
Zinc Zn 30 2.38 ppm AAS
Gallium Ga 31 <0.001 ppm FSK
Germanium Ge 32 <0.001 ppm FSK
Arsenic As 33 <0.01 ppm AAS
Selenium Se 34 0.05 ppm AAS
Bromine Br 35 2.1 ppm TXRF
Rubidium Rb 37 0.04 ppm AAS
Strontium Sr 38 0.014 g/kg AAS
Ytterbium Y 39 <0.001 ppm FSK
Zirconium Zr 40 <0.001 ppm FSK
Niobium Nb 41 <0.001 ppm FSK
Molybdenum Mo 42 0.01 ppm AAS
Technetium Tc 43 unstable artificial isotope - not included
Ruthenium Ru 44 <0.001 ppm FSK
Rhodium Rh 45 <0.001 ppm FSK
Palladium Pd 46 <0.001 ppm FSK
Silver Ag 47 0.031 ppm AAS
Cadmium Cd 48 <0.01 ppm AAS
Indium In 49 <0.001 ppm FSK
Tin Sn 50 <0.01 ppm AAS
Antimony Sb 51 <0.01 ppm AAS
Tellurium Te 52 <0.001 ppm FSK
Iodine I 53 <0.1 g/kg potentiometric
Cesium Cs 55 <0.001 ppm FSK
Barium Ba 56 1.96 ppm AAS/TXR
Lanthan La 57 <0.001 ppm FSK
Cerium Ce 58 <0.001 ppm FSK
Praseodymium Pr 59 <0.001 ppm FSK
Neodymium Nd 60 <0.001 ppm FSK
Promethium Pm 61 unstable artificial isotope - not included
Samarium Sm 62 <0.001 ppm FSK
Europium Eu 63 <3.0 ppm TXRF
Gadolinium Gd 64 <0.001 ppm FSK
Terbium Tb 65 <0.001 ppm FSK
Dysprosium Dy 66 <4.0 ppm TXRF
Holmium Ho 67 <0.001 ppm FSK

Erbium Er 68 <0.001 ppm FSK
Thulium Tm 69 <0.001 ppm FSK
Ytterbium Yb 70 <0.001 ppm FSK
Lutetium Lu 71 <0.001 ppm FSK
Hafnium Hf 72 <0.001 ppm FSK
Tantalum Ta 73 1.1 ppm TXRF
Wolfram W 74 <0.001 ppm FSK
Rhenium Re 75 <2.5 ppm TXRF
Osmium Os 76 <0.001 ppm FSK
Iridium Ir 77 <2.0 ppm TXRF
Platinum Pt 78 0.47 ppm TXRF
Gold Au 79 <1.0 ppm TXRF
Mercury Hg 80 <0.03 ppm AAS
Thallium Tl 81 0.06 ppm AAS
Lead Pb 82 0.10 ppm AAS
Bismuth Bi 83 <0.10 ppm AAS
Polonium Po 84 <0.001 ppm FSK
Astat At 85 <0.001 ppm FSK
Francium Fr 87 <1.0 ppm TXRF
Radium Ra 88 <0.001 ppm FSK
Actinium Ac 89 <0.001 ppm FSK
Thorium Th 90 <0.001 ppm FSK
Protactinium Pa 91 <0.001 ppm FSK
Uranium U 92 <0.001 ppm FSK
Neptunium Np 93 <0.001 ppm FSK
Plutonium Pu 94 <0.001 ppm FSK
Additional Combined Elements
Water H₂O 1.5 g/kg DIN
Ammonium NH₄⁺ 0.010 ppm Photometric
Nitrate NO₃⁻ 0.09 ppm Photometric
Phosphate PO₄³⁻ <0.10 ppm ICG
Hydrogencarbonate HCO₃⁻ <1.0 g/kg Titration
The inert gasses Helium- He-2, Neon-Ne-10, Argon-Ar-18, Krypton-Kr-36,
Xenon-Xe-54, and Radon-Rn-86 could not be included in the research.
Many of the elements could not be proven with conventional chemical
analysis. Through the transfer of frequency patterns by means of wave
transference, it was possible to prove the frequency pattern with the aid of
frequency spectroscopy. With this, the detection of elements even smaller
than <0.001 ppm was proven.
The sodium chloride content is 97.41% and meets the worldwide necessary