

ICP-MS Solution Instructions

For 7N HNO₃

Mix a 1:1 ratio of Concentrated HNO₃ and DI H₂O.
Mix well

Total Digestion

3 ml 7N HNO₃ + 1mL HF

For 1000 ml of 2% HNO₃

Mix 135 ml of 7N HNO₃ with 865 ml of DI H₂O.
Mix well.

For 1000 ml of Internal standard solution (1 ppb Indium and Bismuth)

Add 0.1 ml of In single element stock solution and 0.001 ml of Bi single element plasma standard to 1000 ml of 2% HNO₃.
Mix well.

For 200 ppb (ng/ml) stock standard solution

Add 1 ml each of Multi-element solution 1 and 2 A and 0.01 ml of single element Zirconium standard to 48 ml of the Internal standard solution.

100 ppb standard = 5 ml of 200 ppb + 5 ml of ISS

40 ppb standard = 2 ml of 200 ppb + 8 ml of ISS

20 ppb standard = 1 ml of 200 ppb + 9 ml of ISS

10 ppb standard = 0.5 ml of 200ppb + 9.5 ml of ISS

5 ppb standard = 0.25 ml of 200 ppb + 9.75 ml of ISS