

# CETAC OmniPure™ Sub-Boiling Distillation System



## Experimental:

A 500 mL aliquot of spiked (10 $\mu$ g/L) 37% reagent grade HCl was added to the distillation container. Heat was applied at 90°C for 12 hours and distillate collected in a clean PFA bottle. The spiked acid and distillate was then analyzed by ICP-MS.

## Distillation of 37% Hydrochloric Acid

### Throughput (37% HCl)

Temp (°C)	Volume (mL)
60	130
70	190
80	245
90	320

## Reagent Grade HCl

Element	Spike Conc. ( $\mu$ g/L)	After 90°C Distillation ( $\mu$ g/L)
Be	10.1	ND
Mg	9.6	0.13
Al	11.6	0.97
Co	9.9	0.003
Ni	11.5	ND
Cu	10.0	0.23
Sr	10.5	0.22
Ru	10.8	0.02
Rh	10.0	0.005
Pd	9.9	0.01
Cd	10.2	0.09
Ba	10.1	0.08
Dy	10.1	ND
Ir	10.6	0.008
Pt	10.2	ND
Au	10.2	0.04
Tl	10.2	0.04
Pb	10.6	0.007
U	10.3	ND

ND = Not Detected