

CGS 3003.02

The sample is dispensed into a sample tube which is then attached to a collector tube containing a hydrophobic membrane. This assembly is then inserted into a heating block where the sample is boiled. The resulting vapor passes through the membrane, condenses, and collects above the membrane in a trapping solution specific to the analyte.

Upon completion of the distillations, the collector tube is snapped in half and the distillate is brought up to volume. With MICRO DIST, the sample is distilled under conditions that are significantly more reproducible than those of a macro-distillation procedure.

Macro-distillation Glassware

MICRO DIST

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| There are many fragile pieces to disassemble, clean and reassemble between each distillation | The MICRO DIST tube consists of only two pieces which are disposed of after use |
| Leaks at glass joints are a major cause of low recoveries | The tube has one plastic press-fit joint that will never leak |
| The flow rate of the purge gas stream is critical | The <i>in situ</i> steam is self-purging so no external gas stream is required |
| Irregular contact with the heating mantle causes variable heating for each sample | The high contact block heater is temperature controlled for high precision across all samples |
| About 10 samples per day can be distilled in a typical lab | Over 100 samples per day can be distilled |

Specifications

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|------------------------|---|
| Height x Depth x Width | 33 cm (13 in) x 17 cm (7 in) x 72 cm (28 in) |
| Electrical: | A17102: 110-120 VAC, 11A A17202: 220-240 VAC, 5A |

Ordering Information

MICRO DIST[®] System:

Includes heating block, digital temperature controller, complete accessories kit, and Methods Manual

MICRO DIST tubes are available prefilled with trapping solution.

For users wishing to fill MICRO DIST tubes themselves, the User-Fill option is available.

| MICRO DIST Methods No. | Matrix and Chemistry | Prefilled Pkg / 21 | User-Fill Pkg / 10 | User-Fill Pkg / 50 | User-Fill Pkg / 100 |
|------------------------|---|--------------------|--------------------|--------------------|---------------------|
| Cyanide - 1 | waters, solids, strong acid dissociable (SAD) | A17001 | A17017 | A17517 | A17117 |
| Cyanide - 2 | caustic extracts, SAD | A17021 | A17017 | A17517 | A17117 |
| Cyanide - 3 | waters, solids, weak acid dissociable (WAD) | A17031 | A17017 | A17517 | A17117 |
| Cyanide - 5 | waters, SAD | A17011 | A17017 | A17517 | A17117 |
| Phenolics - 1 | waters, solids, 4 - AATP | A17002 | A17017 | A17017 | A17017 |
| Sulfide - 1 | waters, iodometric | A17003 | A17017 | A17517 | A17117 |
| Sulfide - 2 | waters/MTB | A17009 | A17017 | A17517 | A17117 |
| Ammonia - 1 | waters, phenate/ISE | Not available | A17017A | A17517A | A17117A |
| Ammonia - 2 | waters, solids, nesslerization | Not available | A17017A | A17517A | A17117A |
| Tritium - 1 | contaminated waters, solids | A17004 | A17017 | A17517 | A17117 |