

Test Equipment

Probe-tuning setup: 500 MHz PTS synthesizer with knobs, Wavetek 500 MHz sweep generator, and Telonic alignment scope model 121A

PTS synthesizers with knobs: 160 MHz (2), 500 MHz, 620 MHz

3 500 MHz PTS synthesizers without knobs

Goldstar 100 MHz oscilloscope OS-9100P

BK Precision 2160 60 MHz oscilloscope

Vizateck 20 MHz oscilloscope MOS-2620

Wavetek 400 MHz sweep generator

5 MHz Lin/Log sweep generator model 185

BIRD watt meter Thruline model 43

ADC Sound Shaper SA-1 frequency spectrum analyzer

RSR FG-30 3 MHz function generator

Protek sweep function generator B-801

8010A digital multimeter

Lu Technology 4206A Triple output power source

Fluka 8300 digital voltmeter

Lab Equipment

Captair benchtop filter hood with solvent filter

Justrite solvent storage cabinet, 3 ft high

A-frame gantry on castors with chainfall, capable of lifting 500 MHz magnet

Pallet jack

Powerex oil-less scroll compressor with tank and air drier

Orion pH meter model 410A

4 gas regulators

Sciencetech SA80 analytical balance. Weighs to 0.1 mg, with vibration isolating table, Plexiglas enclosure, certified weights

Benchtop centrifuge, can be used with 7" NMR tubes

NIST-traceable thermometer, -20°C – 120°C

Small sonicating bath

Hot plate/stirrer

Lab jack

Ring stand with various clamps and rings

Gilson 20-200 µL pipetman with 3 boxes tips

4 boxes 1 mL pipetman tips

10 boxes large Kimwipes

8 boxes 5-3/4" Pasteur Pipets and bulbs

1 box 9" Pasteur Pipets

2 rolls Para-film

2 boxes large disposable plastic spatulas

5 boxes small disposable plastic spatulas

Nitrile gloves: 8 boxes size L, 1 box size XL, 4 boxes size M

NMR tubes:

~220 3mm Norell tubes

~400 5mm Norell 502-7 tubes

200 Norell 500-7 tubes

~50 Norell 502 8" tubes

~150 Aldrich 7" tubes

100+ Deuterotubes BORO300-5-7 tubes

misc larger tubes, vortex plugs, etc

LOTS 5 mm NMR tube caps, assorted colors

VWR 12 mL vials with caps, 144 count

1 box 4 mL vials with Teflon-lined caps

Deuterated solvents

In 0.75 mL ampoules, 10 ampoules per box:

25 boxes DMSO

3 boxes MeOD with TMS

3 boxes MeOD without TMS

5 boxes acetone

5 boxes D₂O with TSP

3 boxes D₂O without TSP

3 boxes pyridine

3 boxes benzene

3 boxes tetrafluoroethane

1 box DMF

2 5g ampoules DCl, 20%

4 5g bottles d₂-tetrachloroethane

10g bottle MeOD

8 1g ampoules d₂-hexafluoroisopropanol

1 10g ampoule acetone

1 10g ampoule d-TFA

9 1g ampoules d-TFA

2 50g bottles NaOD, 30%

partial boxes of single-use ampoules of dioxane, toluene, ethanol, cyclohexane, CD₂Cl₂, acetic acid, CD₃CN, p-xylene, isopropanol

~1 liter 99.8% D₂O in septum-top vials

~0.5 liter 100% D₂O in septum-top vials