



# COMPOUNDS AUSTRALIA

## *Services and workflow*

## Lodgement and Storage

### Receipt of sample

Compounds Australia receives samples (solubilised or dry) in the following labware:

- Sample vials
- Microtubes
- Microtitre plates

### Solubilisation

Sample concentration standardised with HPLC-grade DMSO

### Reformatting

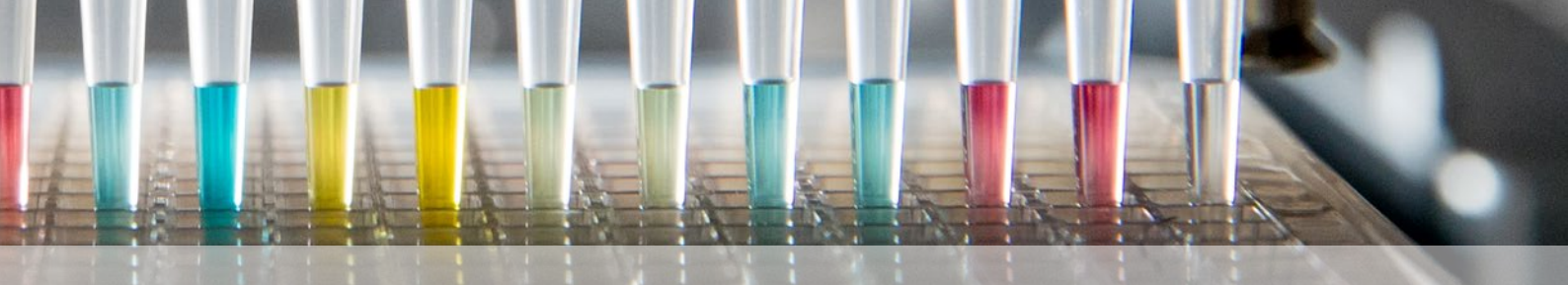
Samples transferred from supplied labware to Compounds Australia or AcoustiX-compatible labware:

- Rack to plate, plate to plate, vial to tube

### Storage

Supplied samples stored in:

- Barcode-tracked microtubes or microplates
- A humidity and temperature-controlled environment



## Quality Assurance

### Data tracking

Our instrumentation QA comprises:

- Barcode tracking of all samples and plates within a central database
- Collation of instrument logs and output files
- Regular checks on pipetting accuracy
- Precision maintenance of all instruments in accordance with manufacturer specifications.

### Liquid handling

- All Compounds Australia liquid handling equipment is regularly calibrated for transfer accuracy.
- Equipment failing to achieve a CV pass of >5% of expected working volume range is removed from service, repaired and retested.

### Instrument maintenance

- All instrumentation is maintained in accordance with manufacturer specifications.
- Our automation engineer works with manufacturers to ensure our platforms operate at peak performance levels.

### Sample integrity

- All samples in our Open Academic Libraries are analysed on submission and at regular intervals.
- Representative subsets from our larger libraries are monitored annually.

## Sample Processing

### NB Compounds Australia only processes samples from stored library collections

#### Replication of samples

Compounds Australia can deliver samples in bespoke formats:

- Direct transfer from source plate to destination plate
- Quadrant/de-quadrant
- Single volume
- $\mu$ L or nL

#### Transfer or reformat

- Sample transfer from rack to plate or plate to plate to generate desired destination formats
- Single volume
- $\mu$ L

#### Cherry pick

- Sample transfers from plate to plate
- Various formats available
- Single or multiple volume from single-source concentration
- $\mu$ L or nL

#### Dose response

- Concentration curves generated from source and intermediate concentration
- Multiple volume
- $\mu$ L or nL