

SomaScan[®] Assay 7K Kit

Lab Installation Layout

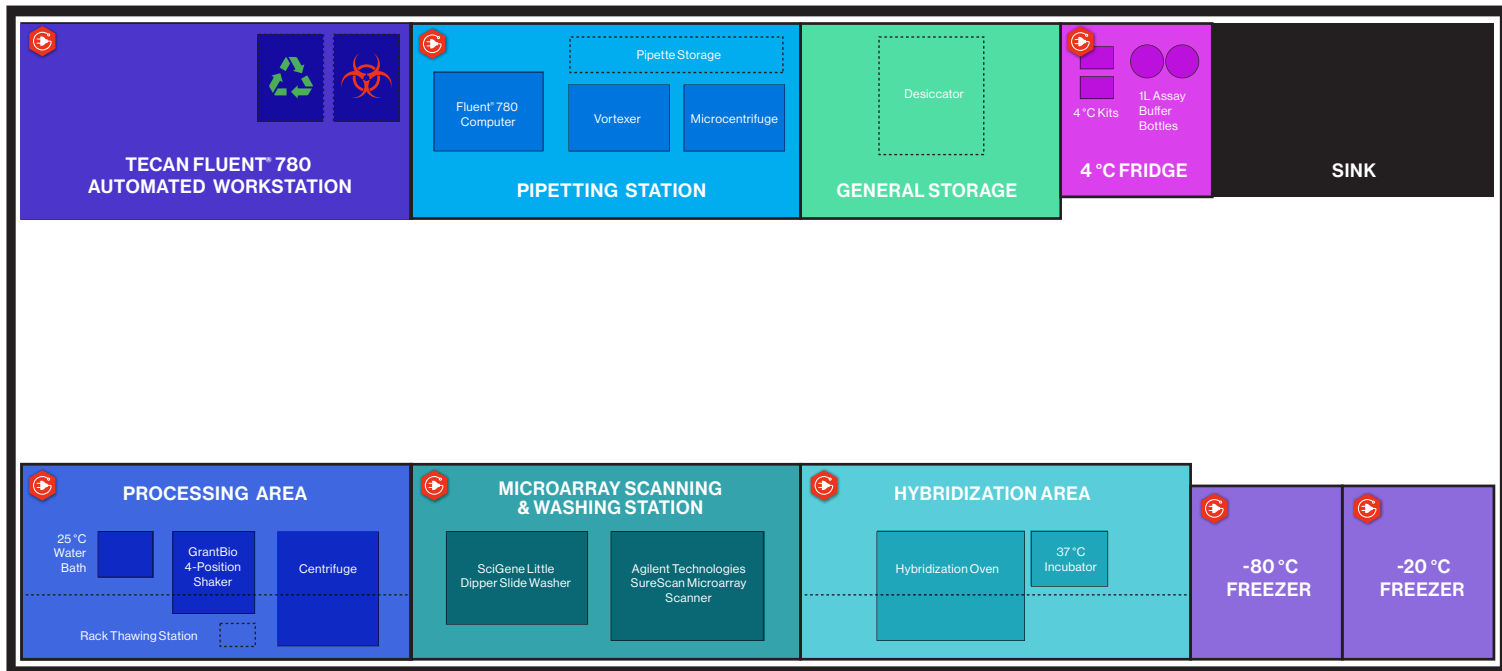
This document describes the required equipment, dimensions, and suggested layout of a lab space processing plasma and serum samples with the SomaScan Assay 7K Kit.



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Dimensions & Space Considerations

EXAMPLE LAYOUT: 10 feet x 21 feet



INDICATES THIS AREA CONTAINS EQUIPMENT THAT REQUIRES POWER OUTLETS

Tecan Fluent® 780 Automated Workstation

Dimensions:

- **Height** (standard Z): 1,236 mm/48.6"
- **Height** (long Z): 2,301 mm/90.6"
- **Width**: 1,650 mm/64.96"
- **Depth**: 785 mm/30.9"

Recommendation:

Requires table 6 ft. or larger with additional bench space for computer. Workstation should not be exposed to direct sunlight or air flow. Workstation should be in close proximity to biohazard waste and recycling containers.

Processing Area

Dimensions:

6 ft. bench space to accommodate

- 25 °C Water Bath (recommended dimensions 13.25" x 8.25" x 9.88")
- Centrifuge (18.5" x 21" x 13.4")
- GrantBio 4-Position Shaker (15" x 15" x 5.5")
- Rack Thawing Station (6.5" x 4.25" x 11")
 - Typically installed in storage shelves above processing area

Recommendation:

Used in sample and reagent preparation, hybridization set-up, and consumable storage.

Pipetting Station

Dimensions:

Large, empty lab bench with space to accommodate

- Pipette Storage
- Vortexer
- Microcentrifuge

Recommendation:

Used when pipetting sample diluent, and in auxiliary preparation and slide dropping

Microarray Scanning & Washing Station

Dimensions:

6 ft. bench space to accommodate

- Agilent Technologies SureScan Microarray Scanner (17" x 26" x 16.5")
- SciGene Little Dipper Slide Washer (20" x 28" x 22")
- Additional space for cracking slides
- Requires internet access

Hybridization Area

Dimensions:

6 ft. bench space to accommodate

- Hybridization Oven (roughly 40" x 20" x 20")
- 37 °C Incubator (10" x 14" x 16")
- Storage for reagents, flammable liquids, and high BTU waste

Recommendation:

Microarray processing uses acetonitrile. Area may need vent depending on your institution's regulations.

General Storage

Dimensions:

Space to accommodate

- Storage for consumables including robotic tips, plates, troughs, Agilent reagents, etc.
- Desiccator for storage of unused Agilent slides (recommended)

4 °C Fridge

Dimensions:

Space to accommodate

- 1L Assay Buffer Bottles
- 4C Kits (6" x 4" x 4" per each kit box)

-20 °C Freezer

Dimensions:

Space to accommodate

- -20 °C Kit Components
- Additional stage for Archive Plates (recommended)

-80 °C Freezer

Dimensions:

Space to accommodate

- Sample and control sample storage sent with kits

Sink

Recommendation:

- Sink in lab to clean reusable reagent reservoir
- Fume hood to address bio-safety concerns for sample aliquoting

Other Lab Requirements

Access to deionized (DI) water