

Lab Layout & Design Planner

Diagnostics, Labs & Imaging

Document type: Plan / SOP / strategy / guide · Generated 27 Aug 2026

This guide explains what the tool produces, how to use the output, and what to watch for. The actual output (draft/report) is generated on the tool page.

Background

Plans the layout of a diagnostic lab — reception, phlebotomy, processing zones, imaging rooms, storage and waste flow — for smooth, compliant workflow. Use it before fit-out. For imaging rooms use the Imaging/Radiology Suite Setup.

Purpose of this tool & output

Plan lab zones and workflow

How the output is used

Use it to plan lab zones and workflow — a layout that separates pre-analytical, analytical and reporting for safety and speed.

Important cautions

Layout should ensure clean, unidirectional sample flow, biosafety and separation of imaging (shielded) from wet lab. Microbiology needs containment and imaging needs AERB-compliant shielding. Validate the plan with your equipment vendors, a biosafety-aware architect and radiation-safety consultant.

Companion documents

- Equipment & Analyser Selection
- Reagent-Rental vs Purchase Analyzer
- Collection Centre Setup Guide
- Sample Cold-Chain & Transport Setup
- Imaging/Radiology Suite Setup
- Lab Biosafety & Safety Plan

This is AI-assisted guidance. Verify with a qualified professional before any binding decision. Fees, authorities and processes vary by state and change over time — confirm with your state authority.