



Franklin RDT Platform

Designed to support eHealth and digital connectivity in lateral flow point-of-care testing, the unique Franklin RDT platform can be customised to suit a wide range of test applications.



Actual size

The AtomoRapid 'Franklin' RDT platform offers all-in-one convenience with a built-in safety lancet, innovative blood collection feature, integrated blood and buffer delivery system, and digital LCD result reader.

The platform has been designed to mitigate errors associated with interpretation of results, making it ideally suited for lay users and self-test applications. The LCD reader can measure line intensity on a lateral flow test strip and can quantify the level of analyte present. Customisable for most lateral flow test strips that use capillary blood samples, Franklin can also be adapted to read multiple lines.

PLATFORM FEATURES	BENEFITS
All-in-one test device	<ul style="list-style-type: none"> • Greater convenience and usability • Enables successful first time use by lay users • Reduces the number of potentially hazardous and contaminated test components for disposal
Interlocked, sequenced user steps	<ul style="list-style-type: none"> • Supports compliance with test procedures • Ensures fewer user errors
Contact activated, auto-retracting safety lancet	<ul style="list-style-type: none"> • Prevents needlestick injuries and improves safety • Supports compliance to best practice in capillary sampling
Innovative blood collection unit	<ul style="list-style-type: none"> • Simplifies test procedure and ensures easy blood collection • Improves blood volume accuracy • Designed for use by untrained lay users
Controlled delivery of blood to the test strip	<ul style="list-style-type: none"> • Transfers blood to the correct point of the test strip simply and cleanly
Integrated buffer delivery mechanism	<ul style="list-style-type: none"> • Provides greater convenience by removing the need for a separate buffer • Enhances test performance by ensuring delivery of the correct buffer volume
Electronic reader and liquid crystal display (LCD)	<ul style="list-style-type: none"> • Simplifies result interpretation for user by giving clear indication on LCD screen • Diode-based reader detects positive results and gives quantification thereof • Greater accuracy and repeatability in determining line intensity against validated dose response curves

PLATFORM SPECIFICATIONS	
Type	Single use, disposable lateral flow RDT platform
Device dimensions	128mm x 28mm x 29mm
Safety lancet needle gauge	21G
Needle penetration depth	2.4mm
Blood volume collected	Calibrated from 5µL to 40µL
Buffer volume delivered	Calibrated up to 120µL
Test strip dimensions	4 (±0.2)mm x 73.5 (±0.5)mm



Lance Finger



Collect Blood



Press Button



Read Result

Franklin RDT Platform

SCREEN OPTIONS	TALL SCREEN	SMALL SCREEN	WIDE SCREEN	NARROW SCREEN
Test in process				
Positive				
Negative				
Invalid				

ICON DESIGN OPTIONS

Positive				POS	
Negative				NEG	
Invalid					
Processing					
Strength					

About Atomo Diagnostics

Atomo is a specialist medical device design and original equipment manufacturing (OEM) company with unique and proprietary technologies that improve rapid diagnostic testing by emphasising ease-of-use, accuracy and performance.

Quality Assurance & Regulatory

Atomo's operations are ISO 9001 and ISO 13485 certified for the design, development and manufacture of in vitro diagnostic medical devices.



Award Winning Design

Atomo's rapid diagnostic test products have been recognised internationally for innovative design, performance and ease-of-use.



Contact Details

Australia (Head Office)

Level 1
3-5 George Street
Leichhardt, NSW, 2040

Telephone: +61 (0)2 9099 4750

Discover how partnering with Atomo Diagnostics can provide your business with an efficient and low-risk pathway from product development to commercialisation of your rapid diagnostic test

atomodiagnosics.com/oem/
info@atomodiagnosics.com

