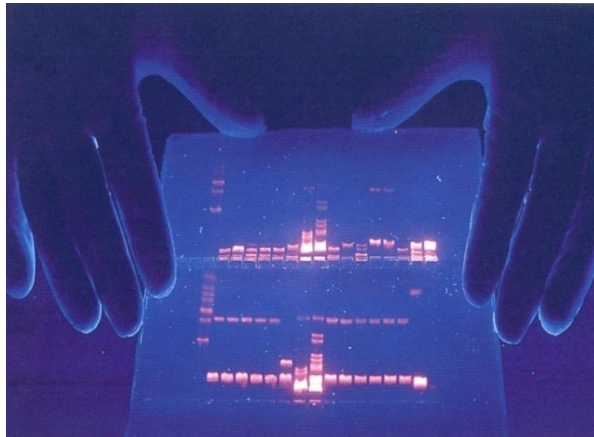


ScreenTape®

The Lab901 ScreenTape® system

Electrophoresis

The Problem



- A “Slab Gel” is used to determine the size and amount of DNA, RNA or Protein in a test sample.
- It is labour intensive, time consuming and messy.

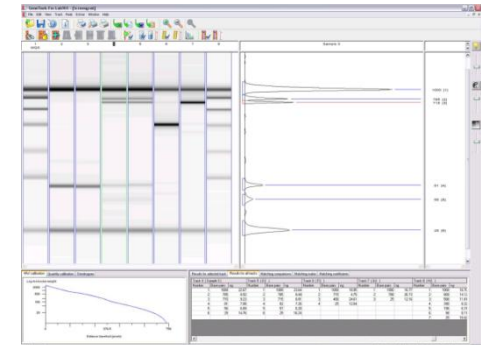
The Solution



ScreenTape®



TapeStation™



Software

The Lab901 ScreenTape® system



Tape



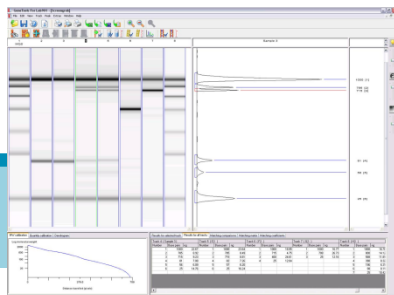
- Microscale
- Pre-packaged
- Safe

Instrument



- Compact
- Automated loading, processing and imaging

Software

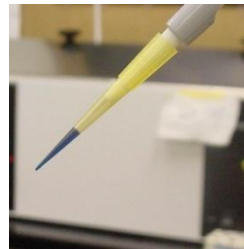


- Sizing
- Quantification
- Archiving

ScreenTape Process



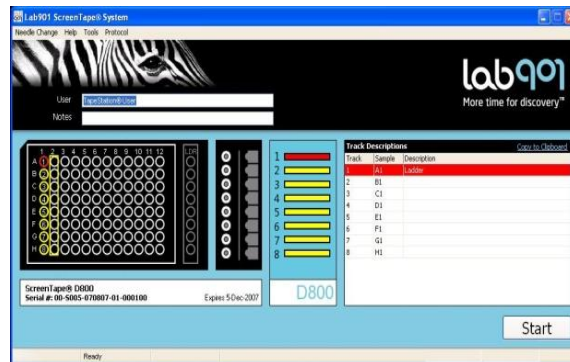
PCR



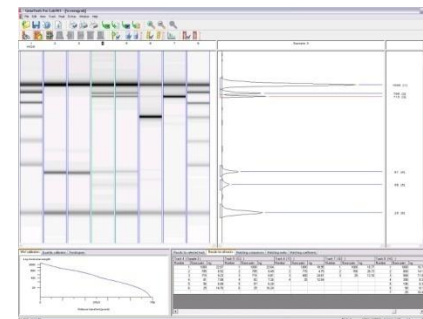
Add Lab901
loading buffer,
mix



Place samples, tips and
ScreenTape® into the TapeStation™



Select samples and press
'Start'



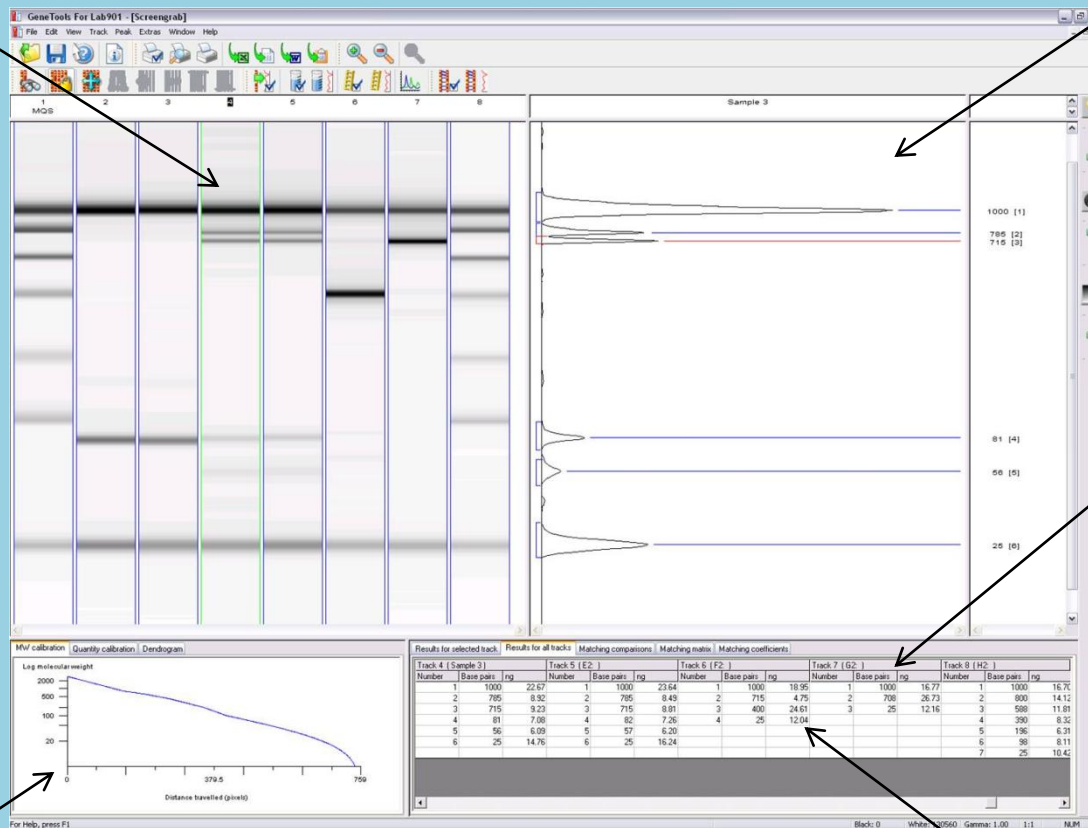
In 10 minutes, sample results are
returned

ScreenTape[®] - Analysis for research

Lane Images

One-click to Word, Excel or PDF

Electropherogram



Calibration Curve

Fragment Quantity

ScreenTape[®] - Analysis for PCR diagnostic tests

Lab901 have developed alternative software that can generate the type of simplified positive/negative readout illustrated below.

Patient ID details

Experimental data capture for traceability

The screenshot shows a software window titled "MTHFR test 1". On the left, there are input fields for "User" (TapeStation User), "Notes" (Example Note), "Test Kit" (MTHFR Kit), "Test Time" (09/11/2007 14:46:48), and "Tape Serial Number" (00-S005-071109-00-000123-090309). Below these are buttons for "Sample ID", "Internal Control", "677C", "677T", and "Unidentified". The main area contains a grid of 7 samples (sample 1 to sample 7) with 4 rows of data. The first row shows red '+' signs for all samples. The second row shows a green '-' sign for sample 1 and red '+' signs for others. The third row shows red '+' signs for all samples. The fourth row shows numerical values: 0, 0, 1, 0, 0, 0, 0. Arrows point from the text labels to the corresponding fields in the interface.

Sample ID	sample 1	sample 2	sample 3	sample 4	sample 5	sample 6	sample 7
Internal Control	+	+	+	+	+	+	+
677C	-	+	+	+	+	+	+
677T	+	+	+	+	+	+	+
Unidentified	0	0	1	0	0	0	0

Simplified readout for rapid positive or negative results

Built-in safeguard against erroneous results

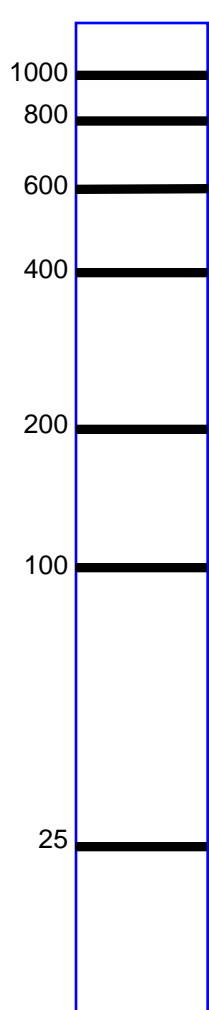
ScreenTape[®] - Benefits



- Saves time: Ready to run
- Convenient: Sample to answer
- Simple: Software analysis
- Safe: Enclosed system
- Reliable: Reproducible results

ScreenTape® DNA Applications

ScreenTape® - DNA Formats

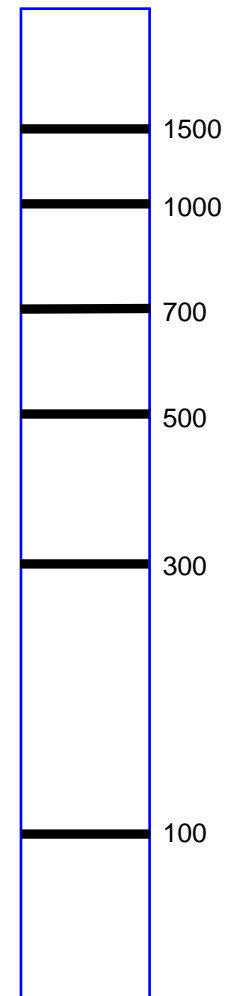


ScreenTape® D800 lab901

Sizing range	25 - 800bp
Sizing accuracy	± 5% or 20bp
Resolution	± 15% or 25bp
Linear dynamic range	0.5-30 ng/μl per fragment
Sizing Reproducibility	5% CV
Sample Volume loaded	1 μL
Analysis time per sample	75 seconds
Lanes per tape	8 (moving to 16)

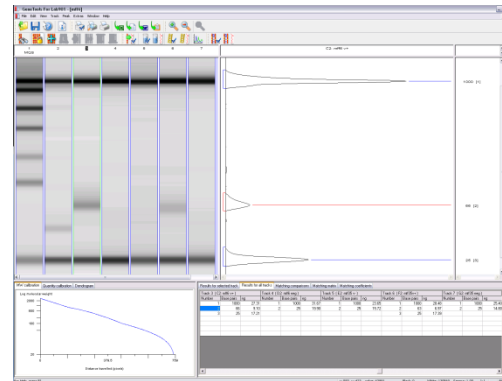
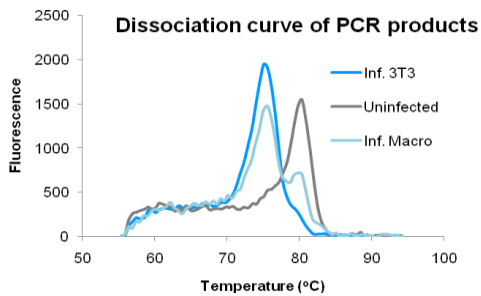
ScreenTape® DS12 lab901

Sizing range	100 - 1200bp
Sizing accuracy	± 10% or 50bp
Resolution	± 15% or 50bp
Linear dynamic range	0.5-30 ng/μl per fragment
Sizing Reproducibility	5% CV
Sample Volume loaded	1 μL
Analysis time per sample	85 seconds
Lanes per tape	8 (moving to 16)



ScreenTape[®] - PCR analysis

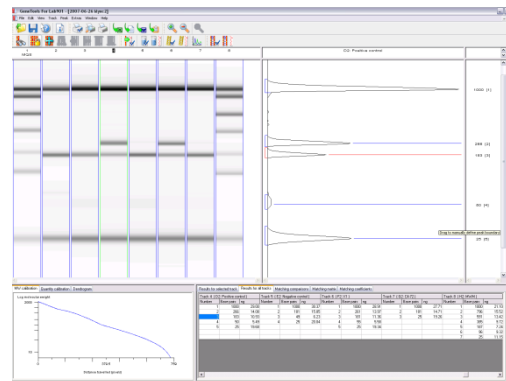
miRNA qPCR Quality Control



Reproducibility
instils
confidence

Mycoplasma spp. PCR screening

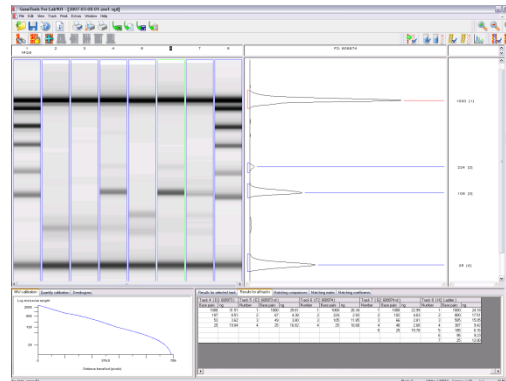
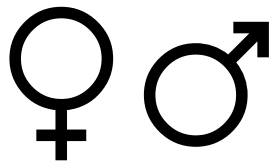
Decreases time
to result



ScreenTape[®] - Veterinary Diagnostics



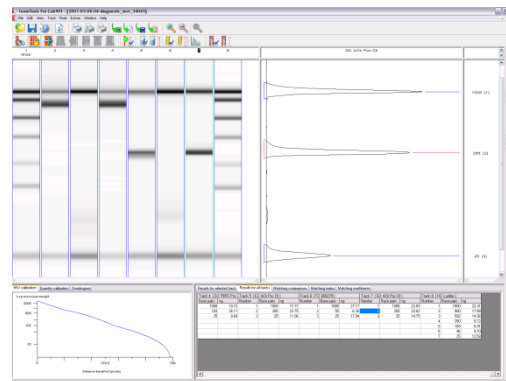
Avian Sexing



Relative quantitation values allow calculation of DNA digestion

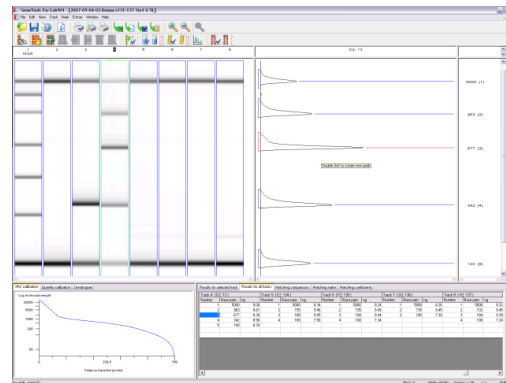
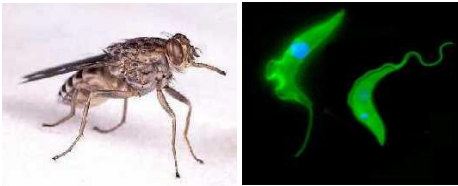
PBFD & Chlamydia

Multi-lane analysis for sample comparison with positive controls



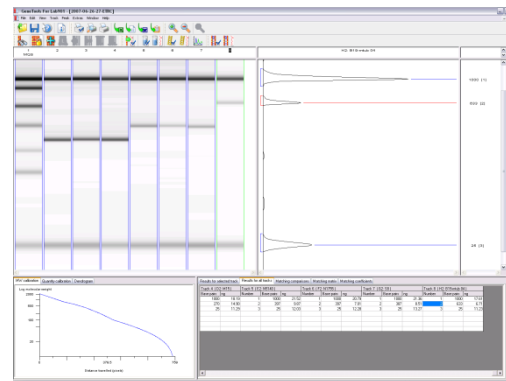
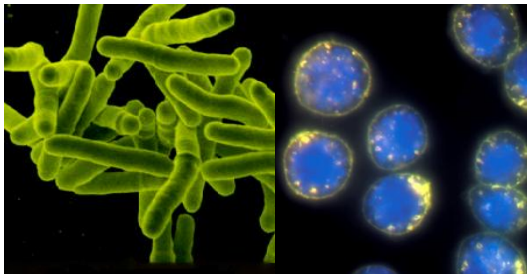
ScreenTape[®] - Genetic Profiling

Trypanosome speciation



Pre-packed reagents and portability allow convenient field study

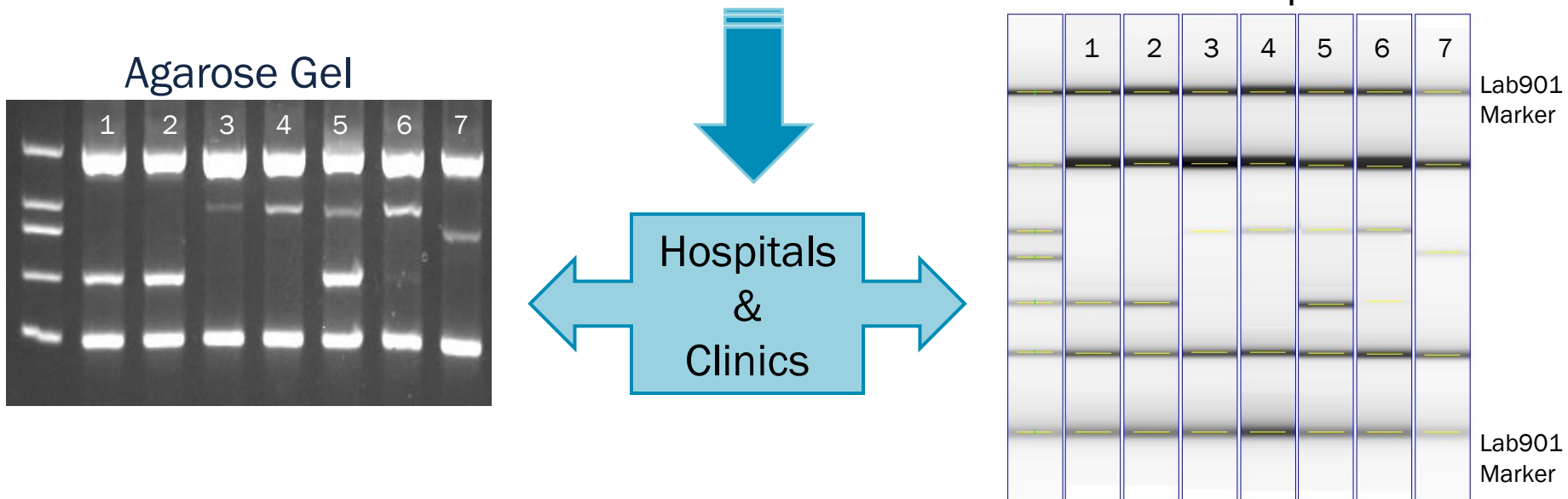
Mycobacterium tuberculosis genotyping



Automates analysis, simplifying diagnosis

Molecular Diagnostics

Multiplex PCR assay for infectious diseases



- manual load
- 2-3 hours to make, load, run and analyse
- trained staff for interpretation
- prone to human error

- automated & easy to use
- less than 10 minutes
- software analysis
- reproducible



lab901
More time for discovery™

Lab901 Limited
IMEX Business Centre
Bilston Glen, Loanhead
EH20 9LZ, UK

t: +44 (0)131 448 2904
f: +44 (0)131 448 0679
w: www.lab901.com