

# Genotyping



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Discovery



# Azura Mouse Genotyping Kit

Azura Mouse Genotyping Kit provides a rapid, low-cost and highly efficient method for the DNA extraction and amplification from a variety of solid tissue types, and is ideally suited to mouse tail snips and mouse ear punches.

Conventional methods require laborious, time-consuming and inefficient steps such as phenol extractions and overnight incubations. Azura Mouse Genotyping Kit includes a proprietary lysis buffer formulation which delivers a rapid and complete release of genomic DNA in 15 minutes, followed by PCR amplification using Azura 2x HS Red Mix for unrivalled sensitivity and performance regardless of sequence complexity. Azura 2x HS Red Mix also includes an inert red dye which facilitates direct gel-loading.

## Applications

DNA extraction and amplification from mouse tail, mouse ear and other mammalian tissues.

## Exceptional Performance

Simple, efficient tissue lysis followed by robust amplification which outperforms conventional, crude methods and other commercial kits.

## Convenience of Minimal Handling

Single-tube preparation of PCR-ready mouse genomic DNA in 15 minutes provides ease of use and minimizes contamination risk.

## 1 Hour Work-flow

DNA Extraction and PCR can be complete in as little as 60 minutes for improved throughput and turnaround time.

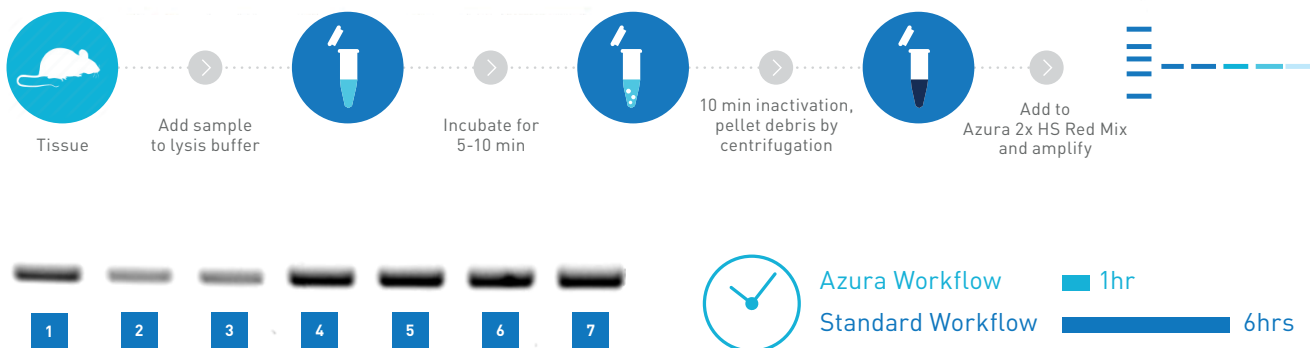


Fig 1.

- Azura Mouse Genotyping Kit provides a rapid, robust, and low cost method for DNA extraction and amplification of complex genomic DNA from animal tissues in approximately 1 hour. DNA Isolation and PCR Analysis of 890bp genomic DNA derived from 2mm mouse tail snips.
- Lane 1 – Azura Mouse Genotyping Kit ( 1 hour duration)
- Lanes 2 and 3 – Conventional Proteinase K and standard Taq Polymerase work-flow (6 hour duration)
- Lanes 4, 5, 6 and 7 – Mouse tail snips of 1mg, 2mg, 3mg and 4mg respectively.
- Azura Mouse Genotyping Kit displays superior results when compared with conventional, homebrew genotyping methods with the additional benefits of time-saving and exceptional sensitivity.



Fig 2.

Time Savings Analysis of Azura Mouse Genotyping Kit compared with conventional extraction and amplification. The Azura Mouse Genotyping workflow requires a rapid 15 minute extraction method which generates high integrity PCR-ready genomic DNA followed by a fast amplification protocol for a total workflow time of approximately 1 hour. In contrast, conventional crude methods utilize a proteinase k digestion step (approx. 4 hours) and standard Taq polymerase PCR (approx. 1.5 hours). The Azura Mouse Genotyping Kit allows increased throughput and improved turnaround time.

Products	Pack Size	Catalog No.	Price
Azura™ Mouse Genotyping Kit	80 Reactions	AZ-1851	\$95
Azura™ Mouse Genotyping Kit	400 Reactions	AZ-1855	\$415