



# Invitrogen BioReliance® LADS Genotyping

## Strain Verification

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The genetic integrity of rodent strains used in bioresearch is a requirement for accurate and reproducible results. Monitoring the genotype of the strains on an annual or biannual basis ensures that any mistake in crossing or apparent changes in the strain can be corrected before the animals are used in research or a breeding colony. PCR analysis of microsatellite markers spaced ~20cM through the autosomes and X chromosome is performed, and fragments are analyzed for size polymorphism. Invitrogen will work with customers to analyze the strains they use and develop a monitoring system that caters to their specific needs.

### General Methodology:

1. Investigator provides tail samples from the various strains kept in their facilities (samples should be from at least two animals / strain). The investigator should also provide as much information as possible that could be used in developing the projects, such as strain type, breeding status, purity of strain, etc.
2. Invitrogen characterizes breeder strain backgrounds to determine the microsatellite markers that provide the most accurate data.
3. Investigator sends tail samples annually or biannually.
4. Invitrogen produces a report indicating status of the strain.

Approximate Cost (please inquire for pricing tailored to your project):

Background Characterization (depending on source of animal).....	\$300-\$4,000
Strain Verification.....	\$300 / animal

Call or email us today to speak with someone about your project: email: [ahs@bioreliance.com](mailto:ahs@bioreliance.com)  
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