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GENOMED®

Genometry Equine Genotyping Kit v1.0
Parentage Testing Kit

Genetic markers for individual identification and parentage testing have been used by the horse industry since the early 1960s to validate pedigree records or to solve cases where parentage is questioned.

The development of the PCR method and the discovery of polymorphic microsatellite DNA sequences in the horse genome has allowed the use of the implementation of robust and cost effective procedures that became the standard for horse genotyping in the late 1990s.

Main Features

Download Manual

- Analysis of the 9 STRs recommended by the ISAG, plus 8 additional loci commonly used for horse parentage testing and identification.
- Easy to use, working with various samples including non-invasive hair samples.
- Gives reproducible, precise results in approximately 5 hours.
- Five Dye-Labeling allows simultaneous analysis of several loci.
- Free results evaluation software tools for simple and automated analysis.
- Gives results with accuracy as high as 99.75% and low incidence of stutter peaks, leaving no room for error.

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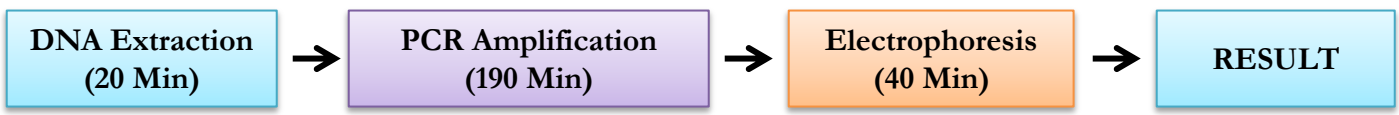
Product Overview

- The kit is used to amplify 17 STRs that are commonly used for horse parentage testing and identification, including the 9 loci recommended by the **International Society of Animal Genetics (ISAG)**.
- Extracted DNA is amplified using a multiplex PCR with 17 sets of fluorescently-labeled primers, to genotype markers for VHL20, HTG4, AHT4, HMS7, HTG6, AHT5, HMS6, ASB23, ASB2, HTG10, HTG7, HMS3, HMS2, ASB17, LEX3, HMS1, CA425 located on chromosomes 1, 2, 3, 4, 8, 9, 10, 15, 21, 24, 28, 25, 30 and X.
- The kit has been developed for accurate parentage verification, with the genotyping of fluorescently-labeled STRs via microsatellite analysis.
- Markers are distributed in two multiplex assays (S1 and S2), in order to reduce the risk of sample mishandling. Upon amplification, 2 reaction tubes are combined, subjected to incubation and run in a single capillary.
- The distinct character of the peaks obtained from microsatellite analysis and the low incidence of "stutter" peaks allows accurate analysis of results.
- Following collection of the products and simultaneous electrophoretic analysis, concordance between results from the two multiplexes allows accurate diagnosis, with two independent assays on each sample.

Rapid Workflow



Ordering Information

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