

Ahlstrom GenSaver™

Long Term Storage Specimen
Collection Cards

Sold by **GenTegra**

- Long-term ambient stabilization of DNA from blood samples
- High qualitative and quantitative DNA recovery
- Direct PCR analysis without previous washing steps



Ahlstrom GenSaver™ is a specimen collection card designed to collect, transport and store blood samples at ambient temperature for DNA analysis

Characteristics

Made of high purity cotton, the Ahlstrom GenSaver™ cards are treated with a new-to-market proprietary chemistry intended for long-term preservation at ambient temperature of DNA from dried blood spots.

Based on current data, the treated cards allow the stabilization of DNA for at least ten years with high quality and quantitative recovery. Longer-term studies are in progress and updated information will be provided when available

Applications

Forensics, genomics, transgenic identification, plasmid screening, STR and NGS, genotyping, animal identification, whole genome amplification. PCR, qPCR, direct PCR analysis are possible. A step of cells lysis is necessary before doing direct-multiplex PCR. For Research Use Only. Not for use in diagnostic procedures.

Key benefits

Feature	Benefit	Why is it important?
Cards treated with a proprietary chemistry for long-term storage of DNA at ambient temperature	Benefit of latest progress in chemical formulation, no need of cold chain shipping and storage	Longer preservation of DNA with high quality and quantitative recovery
Chemistry compatible with direct PCR	No need of previous washing protocol	Saves time and reduces cost by eliminating washing protocol
Automatisation	New alternative matching with market standard design	Cost efficiency, works for automatic equipment

Standard format

Cards prototypes are available for testing in a format made of a cover part for identification information and a specific paper part with 1, 2 or 4 printed circles for sample collection.

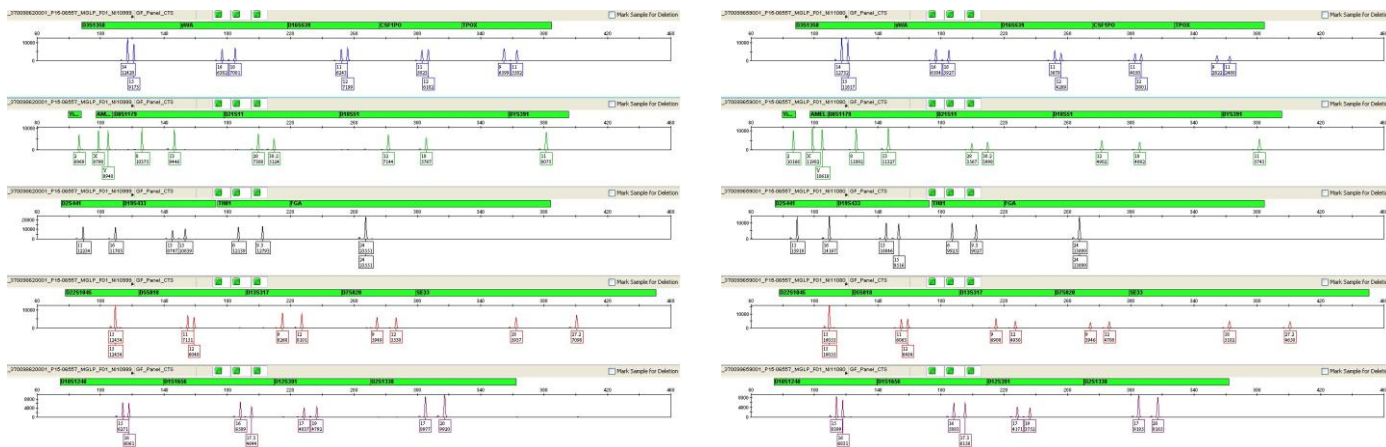
Customized solutions

Ahlstrom GenSaver™ cards can be supplied in designs customized to the needs of customers and the requirements of the applications.

Reliable analysis

STR genotyping analysis

Today, most of forensic DNA tests use PCR and capillary electrophoresis-based analysis methods to detect fragment length variation in short tandem repeat (STR) markers. STR analysis was performed from DBS spotted on Ahlstrom GenSaver™ cards. The DBS not stored or stored at ambient temperature for 2.5 years* were subjected to amplification. Both sample types showed strong signals and high quality peaks. A full profile with all STR loci (24) amplified was obtained and no inhibition was observed. Extraction and purification of DNA from Ahlstrom GenSaver™ cards provides DNA with sufficient quantity and high quality to support allele calling accuracy as high as 100% in STR analysis.



STR profiles from DNA purified from discs punched from blood collected on Ahlstrom GenSaver™ card a) not stored or b) stored for 2.5 years* at ambient temperature. Both samples were processed using a GlobaFiler™ PCR Amplification Kit. The samples were run on a 3500xL Genetic Analyzer (Applied Biosystems) using standard conditions and analysed using GeneMapper ID-X V1.4 (Applied Biosystems).

NGS analysis

In addition, Ahlstrom GenSaver™ cards are compatible with high-throughput genomic technologies. DBS on the cards are suitable for use in single nucleotide polymorphism (SNP) from NGS analysis after 2.5 years* of ambient storage.

*ageing simulation

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Sold by **GenTegra**

To purchase contact: GenTegra at sales@GenTegra.com or phone 1.925.461.3010

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