

BIO X TAL

Identity Monitoring in NGS

SNPXplex[®] KIT

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Precision Identity Tracking in NGS: Unveiling SNPplex®'s Potential

SNPplex® technology enables the simultaneous genotyping of 15 SNPs (single nucleotide polymorphisms) using an allele-specific fluorescent multiplex PCR technique that's quick and easy to use. The results obtained can be compared with NGS genotyping results for the same polymorphisms to ensure identity verification.

The kit **SNPplex®** can also be used for sex determination, reinforcing its clinical utility.

SNPplex® technology represents a major advance in the field of identity vigilance applied to high-throughput sequencing tests. Providing molecular geneticists with a reliable, proven solution enables them to apply international best practice recommendations and helps reduce the time taken to deliver results to patients.

Storage

- Reagents can be **stored at -20°C**.
- Reagents can be **stored at room temperature for up to 8 days, protected from light**.

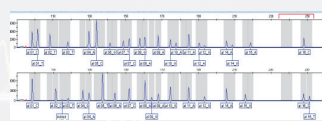
Patient DNA
(Stock solution) +
SNPplex reagent



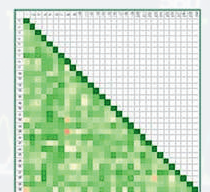
PCR (≈3h)



SNP profile obtained on
capillary sequencing



Comparison with the
profile obtained by
NGS



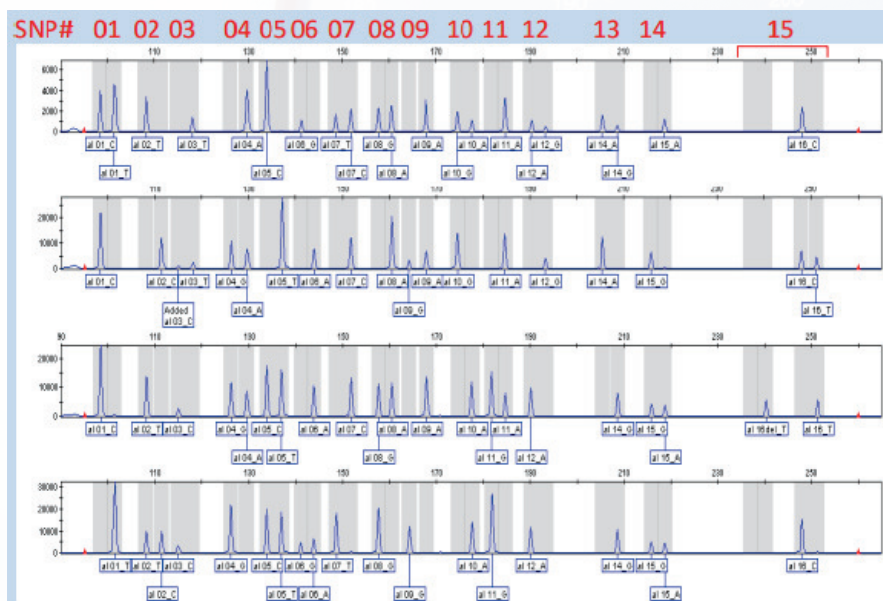
The technique is suitable for routine use. In fact:

- **It is fast** -a single PCR is performed from the DNA in the mother tube, followed by deposition on a capillary sequencer.
- **It is inexpensive.**
- It uses equipment available in any molecular genetics laboratory.

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- **PCR pre-mixes are stable for at least 12 months.**
- **The SNPs chosen are in genes not involved in any pathology:** there is no risk of incidental findings linked to NGS sequencing of the regions containing the SNPs.
- **The exact combination of SNPs can be used in all custom capture kits:** thus, the SNPXPlex technique can be the only barcoding technique in a laboratory using different NGS panels.
- The informativeness of the combination of SNPs is such that, in a series of 96 patients, the risk of two patients presenting the same SNPs profile is < 5%, whatever the origin of the patients, this risk reaches 0.2% for patients of European origin.
- **Interpreting SNPXPlex results is quick and easy.**



- **NGS SNP genotyping results are reliable (>30X coverage).**
- **A customized Excel file facilitates rapid comparison of SNP profiles** obtained via NGS and the SNPXPlex Kit for a series of up to 96 patients.
- This makes it possible to determine whether several patients in the series share the same SNPs profile.
- **The SNPXPlex technique is also applicable to exome and genome results,** with coverage of 15 SNPs proving adequate.
- If the SNP profiles obtained by NGS and SNPXPlex are perfectly identical, and no patient in the series shares the same SNP profile, there's no need to check the NGS sequencing results by another method (subject to the quality of the NGS sequencing).
- For any patients in the series with an identical SNP profile, validation using an appropriate method will be required.

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