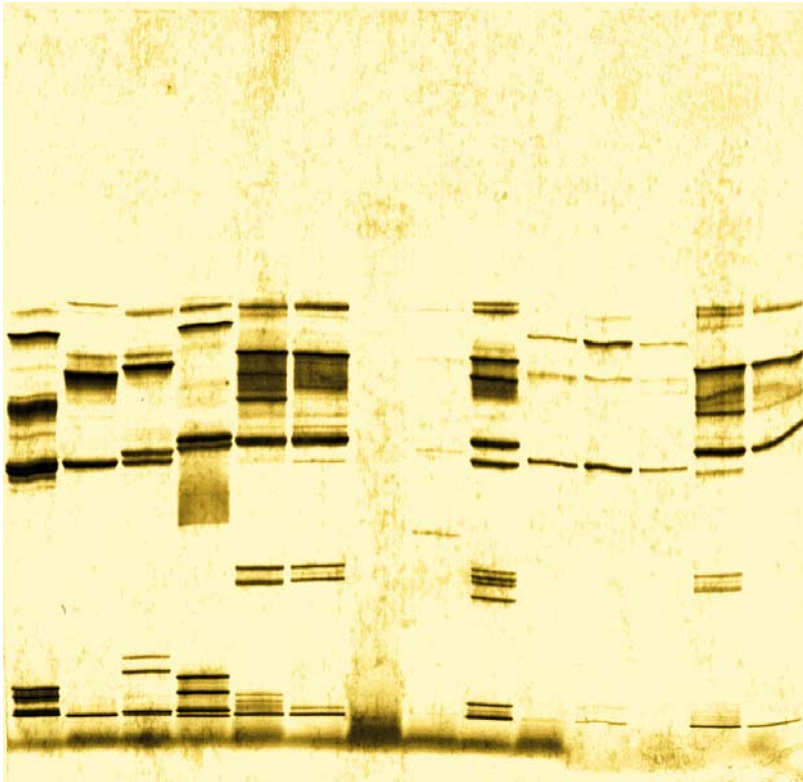


## SSCP SCREENING OF HLA GENES USING CLEANGELS AND DELECT BUFFER

**ETC**

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When DNA-fragments run as single strands in a native medium, then the conformation of the molecules are relative to their sequences. In case of the HLA-region SSCP-electrophoresis is the only possibility to type individuals without sequencing them. Using CleanGels 10% in combination with the Delect buffer gives enough band-sharpness to separate individual HLA-fragments from each other.



### Sample Preparation:

PCR\*) product: Human genomic DNA was amplified with Mhc class II specific primers.

5 40 ng of PCR product are denatured in 10 ml of 50 mmol/l NaOH and 1 mmol/l EDTA at 50 °C for 10 min (or 2 parts 50 mmol/l NaOH and 1 mmol/l EDTA + 1 part PCR product).

No formamide was added, because this would lead to additional heteroduplex band patterns. Amersham Biosciences' 100 Base Pair Ladder: dilute 10+1290 with rehydration buffer; apply: 7 µl = 70 ng/7 ml

### Results:

With the gels and amphoteric buffers of the Delect Buffer Kit, relatively high field strength can be applied for SSCP analysis if compared to other buffer systems, resulting in short separation time.

Single-stranded DNA does not stain well with ethidium bromide, however, very well with silver staining

\*) The PCR process is covered by U.S. patents 4,683,195 and 4,683,302 owned by Novartis Inc. Use of the PCR process requires a license.

### Ordering Information:

CleanGel DNA-HP 10% (5 gels)

ETC 1001-02

Delect Buffer Kit (for 5 gels)

ETC 1002-08