

	High Throughput Typing	Clinical Laboratory Typing			
	<b>HLA Typing</b> (low budget)	<b>HLA Typing</b> (fast track)	<b>SBT<sub>IR</sub></b> (intermediate resolution)	<b>SBT<sub>HR</sub></b> (high resolution)	<b>PCR-SSP</b>
<b>Purpose</b>	donor registries (donor pre-selection) other needs	fast full profiles or completion of existing HLA profiles for low res donors	Patient related donor pre- and confirmatory typing	patient, related and unrelated donor pre- and confirmatory typing	patient, related and unrelated donor pre- and confirmatory typing
<b>Result</b>	full HLA-profile (pretyping)	full HLA-profile or single loci	full HLA-profile	full HLA-profile	full HLA-profile
<b>Format</b>	full HLA profile tabular form  no clinical report	full or partial profile tabular form  no clinical report	typing in written form, finding plus signature	typing in written form, finding plus signature	typing in written form, finding plus signature
<b>Result transmission</b>	only electronical	only electronical	electronical scan ex ante, original clinical reports sent by mail	electronical scan ex ante, original clinical reports sent by mail	electronical scan ex ante, original clinical reports sent by mail
<b>Profile</b>	<b>HLA-class I</b> (-A, -B, -C) <b>HLA-class II</b> (-DRB1, -DQB1, -DPB1)	<b>HLA-class I</b> (-A, -B, -C) <b>HLA-class II</b> (-DRB1, -DQB1, -DPB1)	<b>HLA-class I</b> (-A, -B, -C) <b>HLA-class II</b> (-DRB1, -DQB1, -DPB1)	<b>HLA-class I</b> (-A, -B, -C) <b>HLA-class II</b> (-DRB1, -DQB1, -DPB1)	<b>HLA-class I</b> (-A, -B, -C) <b>HLA-class II</b> (-DRB1, -DQB1, -DPB1)
<b>Test Method</b>	NGS	NGS	Sanger without GSSP	Sanger with GSSP	SSP
<b>Optional</b>	blood group (AB0, Rh) CCR5Δ32 KIR CMV	blood group (AB0, Rh) CCR5Δ32 KIR CMV	-	exclusion relevant null alleles by SSP	-
<b>Resolution</b>	High	High	Intermediate	High	High
<b>TAT</b>	30 days	5 days	5 days	5 days	1-2 days

NGS Next Generation Sequencing  
 GSSP Group Specific Sequencing Primers  
 SBT<sub>IR</sub> Sequence Based Typing, intermediate resolution  
 SBT<sub>HR</sub> Sequence Based Typing, high resolution  
 PCR-SSP Polymerase Chain Reaction with Sequence Specific Primer  
 TAT turnaround time

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