

Specimen Requirements and TAT

CYTOGENETIC Test	TAT (from receipt at Unistel)	Sample Type	Specimen Requirements	Storage	Shipping	Viability of Sample
Blood	10 wd	Lithium Heparin (green top)	Adults: 2ml Infants: 1-2ml	2-8°C DO NOT FREEZE	Room temperature. Avoid extreme temperatures.	3-5 days
Bone Marrow	10-12 wd	Lithium Heparin (green top)	1.5-2ml	2-8°C DO NOT FREEZE	Room temperature. Avoid extreme temperatures.	2-3 days
Amniotic fluid	12-15 wd	In sterile polystyrene Greiner/Falcon container	15ml	2-8°C DO NOT FREEZE	Room temperature. Avoid extreme temperatures.	3-4 days
CVS tissue	12-15 wd	In sterile transport medium (Contact UNISTEL: Sterile transport medium is obtainable from the laboratory)	10-20mg	2-8°C DO NOT FREEZE	Room temperature in transport medium as promptly as possible.	1-2 days
Fanconi anaemia	12-15 wd	Lithium Heparin (green top)	2ml	2-8°C	Room temperature. Avoid extreme temperatures.	3-5 days

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Reg Nr: 1998/021075/07

Directors: GJ Nel (Chairman), L Theart (CEO), CW Wynne, J Marx, AM De Villiers, B Grindlay-Whieldon

MOLECULAR CYTOGENETICS (FISH) Test	TAT (from receipt at Unistel)	Sample Type	Specimen Requirements	Storage	Shipping	Viability of Sample*
Prenatal	2-4 wd	Amniotic fluid Chorionic villi Cord blood	3-5ml Sterile Falcon tube or culture flask	Avoid extreme temperatures	Room temperature	4 days
Micro-deletion 22q deletion (DiGeorge)	12-14 wd	Blood	1ml Lithium Heparin	Avoid extreme temperatures	Room temperature	10 days
Haematological malignancies	10 wd	Blood Bone Marrow	2ml EDTA or Lithium Heparin	Avoid extreme temperatures	Room temperature	1 week
Chronic Lymphocytic Leukaemia (CLL)	10 wd	Blood (preferred) Bone Marrow	2ml EDTA or Lithium Heparin	Avoid extreme temperatures	Room temperature	3 days
Multiple myeloma	10 wd	Bone Marrow	>4ml EDTA or Lithium Heparin	Avoid extreme temperatures	Room temperature	4 days
Acute Promyelocytic Leukaemia (APL)	1 wd	Blood Bone Marrow	2ml EDTA or Lithium Heparin	Avoid extreme temperatures	Room temperature as promptly as possible.	1 week
HER-2	6 wd	Formalin Fixed Paraffin-Embedded (FFPE)	<ul style="list-style-type: none"> 3 positively charged slides Invasive area marked on accompanying H&E slide 1-3 µm of FFPE tumour Slide labelled with two identifiers	Avoid extreme temperatures	Room temperature	N/A

MOLECULAR CYTOGENETICS (FISH) Test	TAT (from receipt at Unistel)	Sample Type	Specimen Requirements	Storage	Shipping	Viability of Sample*
Solid tumours	10 wd	Formalin Fixed Paraffin-Embedded (FFPE)	<ul style="list-style-type: none"> • 3 positively charged slides • Invasive area marked on accompanying H&E slide • 1-3 µm of FFPE tumour • Slide labelled with two identifiers 	Avoid extreme temperatures	Room temperature	N/A
Smears	10 wd	Bone Marrow	>6 slides	Avoid extreme temperatures	Room temperature	<4 weeks

*Please note that the malignant line may not be detected if the samples are aged.

MOLECULAR GENETICS Test	TAT (from receipt at Unistel)	Sample Type	Specimen Requirements	Storage	Shipping	Viability of Sample
Achondroplasia FGFR3	10 wd	EDTA Blood Amniotic fluid Cord Blood Chorionic villi	Blood Adults: 3-5ml Blood Infants: 1-2ml Cord Blood: 1 ml Amniotic fluid: 10 ml Chorionic villi in saline or culture medium	2-8°C	Room temperature	3-7 days

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Apolipoprotein B (APO B) genotyping	10 wd	EDTA Blood	Adults: 3-5ml Infants: 1-2ml	2-8°C	Room temperature	3-7 days
Array Comparative Genomic Hybridization (aCGH) – Prenatal	3-4 weeks	Amniotic fluid EDTA Cord blood Chorionic villi	10ml amniotic fluid 1ml cord blood Chorionic villi in saline or culture medium Maternal EDTA blood sample required	2-8°C	Room temperature	3-4 days
Array Comparative Genomic Hybridization (aCGH) - Postnatal	4-6 weeks	EDTA blood	4-5ml	2-8°C	Room temperature	3-4 days
Array Comparative Genomic Hybridization (aCGH) - Products of conception	4-6 weeks	Products of conception (POC) EDTA Cord blood	POC: Fetal tissue, placenta or umbilical cord in saline (formalin not acceptable). 1ml cord blood	2-8°C	Room temperature	3-4 days
BRAF	10 wd	EDTA Blood/Bone Marrow, Tissue Shavings/Tissue block	3-5ml 1x full 1.5ml Eppendorf tube	2-8°C Room temperature	Room temperature	3-7 days N/A
CALR & MPL	7 - 10 wd	EDTA Blood/Bone Marrow	3-5ml	2-8°C	Room temperature	3-7 days

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MOLECULAR GENETICS Test	TAT (from receipt at Unistel)	Sample Type	Specimen Requirements	Storage	Shipping	Viability of Sample
Cystic fibrosis (CF) delta F508 mutation	7 wd	EDTA Blood	Adults: 3-5ml Infants: 1-2ml	2-8°C	Room temperature	3-7 days
Chimerisms	5 wd	EDTA Blood/Bone Marrow	3-5ml	2-8°C	Room temperature	3-7 days
Familial Hypercholesterolemia (FH) – 3 Afrikaner founder mutations	7 wd	EDTA Blood	Adults: 3-5ml Infants: 1-2ml	2-8°C	Room temperature	3-7 days
Fanconi anaemia FANCG: c.637_643delTACCGCC FANCC: IVS4+4A>T FANCA: 3398delA	15 wd	EDTA Blood	Adults: 3-5ml Infants: 1-2ml	2-8°C	Room temperature	3-7 days
FLT3 & NPM1	7 - 10wd	EDTA Blood/Bone Marrow	3-5ml	2-8°C	Room temperature	3-7 days
Fragile-X	4 weeks	EDTA Blood	Adults: 3-5ml Infants: 1-2ml	2-8°C	Room temperature	3-7 days
IGHV Somatic Hypermutation Assay	10-15 wd	EDTA Blood/Bone Marrow	3 to 4 tubes containing 3-5ml each	2-8°C	Room temperature	3-7 days
JAK2 V617F Quantitative Testing	3-5 wd	EDTA Blood/Bone Marrow	Adults: 3-5ml Infants: 1-2ml	2-8°C	Room temperature	3-7 days
MYD88	7 - 10wd	EDTA Blood/Bone Marrow,	3-5ml	2-8°C	Room temperature	3-7 days

MOLECULAR GENETICS Test	TAT (from receipt at Unistel)	Sample Type	Specimen Requirements	Storage	Shipping	Viability of Sample
NGS testing for products of conception	12 wd	Fetal tissue Umbilical cord Fetal blood (EDTA) Chorionic villi	1x1x1cm in saline 1x1x1cm in saline 3-5ml blood 1x1x1cm in saline Maternal EDTA blood sample required	2-8°C Room temperature	Room temperature	3-7 days
Paternity	7 wd	Blood spots on Guthrie cards		Room temperature	Room temperature	N/A
		EDTA Blood	Adults: 3-5ml Infants: 1-2ml	2-8°C		3-7 days
		Buccal Swabs		2-8°C		<7 days
Kinship	10 wd	Blood spots on Guthrie cards		Room temperature	Room temperature	N/A
		EDTA Blood	Adults: 3-5ml Infants: 1-2ml	2-8°C		3-7 days
		Buccal Swabs		2-8°C		<7 days
Prader-Willi/ Angelman's Syndrome MLPA (PW/AS)	6 weeks	EDTA Blood	1-5ml	2-8°C	Room temperature	3-7 days

MOLECULAR GENETICS Test	TAT (from receipt at Unistel)	Sample Type	Specimen Requirements	Storage	Shipping	Viability of Sample
QF-PCR for Amniotic Fluid/CVS/Cord Blood/Blood	2 -3 wd (3 wd for MCC)	EDTA Blood Cord Blood Amniotic Fluid CVS	3-5ml 1-2ml 10ml Chorionic villi in saline or culture medium Also provide mother's blood (EDTA) to exclude maternal cell contamination (MCC).	2-8°C	Room temperature	3-7 days
Variegate Porphyria (VP)	7 wd	EDTA Blood	Adults: 3-5ml Infants: 1-2ml	2-8°C	Room temperature	3-7 days
Y-Chromosome deletion	7-10 wd	EDTA Blood	3-5ml	2-8°C	Room temperature	3-7 days

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