

WESSEX REGIONAL GENETICS LABORATORY – MOLECULAR HAEMATO-ONCOLOGY TESTS – SERVICE LIST – from 1st April 2020

Note: NHS referrals in England are subject to the National Genomic Test Directory for Cancer.

Haematological malignancies: <i>Please enquire for current prices</i>	Routine TAT (Calendar days)	Gene(s) or locus	Description of test <i>(including reference intervals/ clinical decision values where applicable)</i>
AML:			
• <i>FLT3</i> ITD	10	<i>FLT3</i>	Fragment analysis
• <i>FLT3</i> TKD	10-14	<i>FLT3</i>	Reverse Complement PCR (RC-PCR)
• <i>NPM1</i>	14	<i>NPM1</i>	Reverse Complement PCR (RC-PCR)
• <i>IDH1</i>	21	<i>IDH1</i>	Reverse Complement PCR (RC-PCR)
• <i>IDH2</i>	21	<i>IDH2</i>	Reverse Complement PCR (RC-PCR)
• <i>TP53</i>	21	<i>TP53</i>	Reverse Complement PCR (RC-PCR)
AML core binding factor:			
• Extended <i>KIT</i> screen	21	<i>KIT</i>	Reverse Complement PCR (RC-PCR)
Acute leukaemia (AML, ALL):			
Leukaemia translocations	14	Panel	RT-PCR for 29 translocation mutations
Chronic lymphocytic leukaemia (CLL):			
• <i>TP53</i>	21	<i>TP53</i>	Reverse Complement PCR (RC-PCR)
Chronic myeloid leukaemia (CML):			
• Variant <i>BCR-ABL1</i> translocations	21	<i>BCR-ABL1</i> fusion	RT-PCR
Chronic myeloid disorders and AML:			
• Myeloid NGS panel	21	Up to 54 genes (full screen & hotspots)	Next-generation sequencing
MPN: <i>All four genes tested simultaneously</i>			
• <i>JAK2</i> V617F	21	<i>JAK2</i>	Reverse Complement PCR (RC-PCR)
• <i>JAK2</i> exon 12	21	<i>JAK2</i>	Reverse Complement PCR (RC-PCR)
• <i>CALR</i> (exon 9)	21	<i>CALR</i>	Reverse Complement PCR (RC-PCR)
• <i>MPL</i> (codons 505, 515)	21	<i>MPL</i>	Reverse Complement PCR (RC-PCR)

WESSEX REGIONAL GENETICS LABORATORY – MOLECULAR HAEMATO-ONCOLOGY TESTS – SERVICE LIST – from 1st April 2020

Note: NHS referrals in England are subject to the National Genomic Test Directory for Cancer.

Systemic mastocytosis (SM):			
• <i>KIT</i> D816V	21	<i>KIT</i>	Droplet digital PCR
• Extended <i>KIT</i> screen	21	<i>KIT</i>	
Hypereosinophilic syndrome:			
• <i>FIP1L1-PDGFR</i> A MRD analysis	21	<i>FIP1L1-PDGFR</i> A	Multiplex genomic DNA PCR, nested RT-PCR
• <i>STAT5B</i>	21	<i>STAT5B</i>	Reverse Complement PCR (RC-PCR)
<u>For additional molecular leukaemia research tests, see separate link on Oncology page of website</u>			