

Examinations performed on the material preserved in paraffin blocks in the Molecular Biology Laboratory

The FISH test	Probe
Rearrangement of the BCL2 gene	Fluorescent <i>in situ</i> hybridisation
Rearrangement of the BCL6 gene	
Rearrangement of the MYC gene	
Rearrangement of the MALT1 gene	
Rearrangement of the SS18 gene	
Rearrangement of the FOXF1 gene	
Rearrangement of the DDIT3 gene	
Rearrangement of the EWSR1 gene	
Rearrangement of the CCND1 gene	
Amplification of the HER-2 gene	
Amplification of the MDM2 gene	
IGH/CCND1 gene fusion	
COL1A1/PDGFB gene fusion	
1P19q codeletion	

Genotyping	Method
HPV virus detection (types detected: 6, 11, 16, 18, 26, 31, 33, 35, 39, 45, 51, 52, 53, 56, 58, 59, 66, 68, 70, 73, 82)	Real-time PCR (CE IVD test)
Gene mutation analysis	Method
Analysis of mutations in exons 2, 3 and 4 of the KRAS gene (codons 12, 13, 59, 61, 117 and 146)	Real-time PCR (CE IVD test)
Mutation analysis at codon 600 of the BRAF gene	
Analysis of mutations in exons 2, 3 and 4 of the NRAS gene (codons 12, 13, 59, 61, 117 and 146) and in codon 600 of the BRAF gene	
Analysis of mutations in exons 2, 3 and 4 of the KRAS and NRAS genes (codons 12, 13, 59, 61, 117 and 146) and in codon 600 of the BRAF gene	
Microsatellite instability test	High-resolution PCR with melting analysis
Analysis of mutations in exons 9, 11, 13 and 17 of the KIT gene	DNA sequencing
Analysis of mutations in exons 12, 14 and 18 of the PDGFRA gene	
Analysis of mutations in exons 9, 11, 13 and 17 of the KIT gene and in exons 12, 14 and 18 of the PDGFRA gene	
Analysis of the Asp842Val mutation in the PDGFRA gene	
Analysis of the Asp842Val mutation in the PIK3CA gene (codons 420, 542, 545, 546, 1047)	
Analysis of mutations in the IDH1 gene (codon 132)	
Analysis of mutations in the IDH1 gene (codon 132) and the IDH2 gene (codon 172)	
Mutation analysis in POLE gene - exon 9 (P286R, M295R, S297F), exon 11 (F367S, D368Y), exon 13 (V411L, L424I, P436R, M444K), exon 14 (A456P, S459F)	