

Band	MOLU score	General examples	Specific examples
A	1	<ul style="list-style-type: none"> <li>▪ All DNA extractions<sup>1</sup> to include                             <ul style="list-style-type: none"> <li>○ extract &gt; test locally</li> <li>○ extract &gt; DNA banking</li> </ul> </li> <li>▪ DNA/sample export<sup>2</sup></li> </ul>	
B	2 <sup>3</sup>	<ul style="list-style-type: none"> <li>▪ Single amplicon (genotyping or sequencing<sup>4</sup>)</li> </ul>	<ul style="list-style-type: none"> <li>▪ FraX PCR</li> <li>▪ Haemochromatosis<sup>5</sup></li> <li>▪ Factor V</li> <li>▪ Jak2</li> <li>▪ HD (diagnostic and predictive tests)</li> <li>▪ Other triplet disorders where a single PCR is required (eg SBMA)</li> <li>▪ Y deletions</li> </ul>
C	4	<ul style="list-style-type: none"> <li>▪ Genotyping 2-4 amplicons</li> <li>▪ Sequencing: Very small gene with 2-4 exons/amplicons</li> <li>▪ Sequencing: Predictive tests, confirmations and carrier tests</li> <li>▪ MS-PCR</li> <li>▪ MLPA with no other test (including DMD)</li> <li>▪ Prenatal tests to include the MCC</li> <li>▪ 1 lane on Southern</li> <li>▪ Triplet disorders that require two PCRs (allele specific and TP-PCR)</li> <li>▪ Aneuploidy (to include 13, 18, 21 and X/Y)</li> <li>▪ Identity/paternity tests</li> </ul>	<ul style="list-style-type: none"> <li>▪ CF-ARMS, CF-OLA, CF-HT</li> <li>▪ AS/PWS</li> <li>▪ FraX if Southern blotted</li> <li>▪ DM, Friedreich's ataxia</li> </ul>
D	10	<ul style="list-style-type: none"> <li>▪ 5-19 amplicons (MLPA to count as 2 amplicons when part of full screen)</li> <li>▪ All linkage tests including UPD</li> </ul>	<ul style="list-style-type: none"> <li>▪ Sequencing MECP2</li> <li>▪ DMD linkage</li> <li>▪ AS/PWS if linked markers used</li> </ul>
E	15	<ul style="list-style-type: none"> <li>▪ 20-49 amplicons (MLPA to count as 2 amplicons when part of full screen)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Sequencing factor 8</li> </ul>

F	25	<ul style="list-style-type: none"> <li>▪ 50-100 amplicons (MLPA to count as 2 amplicons when part of full screen)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Sequencing FBN1</li> <li>▪ Sequencing BRCA1+BRCA2</li> </ul>
G	40	<ul style="list-style-type: none"> <li>▪ Over 100 amplicons<sup>6</sup></li> </ul>	<ul style="list-style-type: none"> <li>▪ Sequencing a group of genes in parallel that contribute to a single report</li> </ul>

<sup>1</sup> All extractions receive a MOLU of 1. This should include extractions carried out for cytogenetics, but these samples should not be duplicated in the cytogenetics system. DNA banking reports are counted as extraction only, and DO NOT score twice.

<sup>2</sup> Exported samples score 1 MOLU. If these are DNA samples, then they score 1 for extraction + 1 for export = 2 MOLUs

<sup>3</sup> The MOLU score for band B has been reduced from 3 to 2 to compensate for all DNA samples receiving a score of 1 in band A. DNA extraction is a significant part of the workload in band B, but less significant in subsequent bands, so these scores have remained the same.

<sup>4</sup> Single amplicon sequencing in band B refers to those analyses where practice is to sequence one exon/amplicon as part of a mutation search, such as single exon genes, or genes where mutations cluster in a single exon (eg. neuroferritinopathy). Predictive tests done by sequencing are counted in band C to allow for the requirement for additional control samples.

<sup>5</sup> Some laboratories test for C282Y initially and then H63D as a reflex. Others test for both mutations simultaneously. Each amplicon should be counted separately as a band B test.

<sup>6</sup> An additional band has been added to allow an appropriate MOLU score for sequencing large numbers of amplicons (multiple genes) that contribute to a single report.