

SharePoint

Adeline Sng Shi Hui ▾ ⚙ ?



## SOMATIC SOLID TUMOUR PANEL (LUNG)

**Synonym(s):** SSTP (LUNG)

**Back To Previous Page** (<http://cms-sgh.sppub/Clinical-Departments-Centers/Pathology/Pathology-Handbook/Lab-Discipline-Special-Instructions/Tests/Pages/Forms/AllItems.aspx?category=TW9sZWN1bGFyIERpYWdub3N0aWNzIC0gT25jb2xvZ3k%3d-Op6529IeMB4%3d>) (<http://cms-sgh.sppub/Clinical-Departments-Centers/Pathology/Pathology-Handbook/Lab-Discipline-Special-Instructions/Tests/Pages/Forms/AllItems.aspx?category=TW9sZWN1bGFyIERpYWdub3N0aWNzIC0gT25jb2xvZ3k%3d-Op6529IeMB4%3d>)

### Lab Section Category

#### Molecular Diagnostics - Oncology

Click here to find out more about the **write-up** (</clinical-departments-centers/pathology/pathology-handbook/lab-discipline-special-instructions/pages/moleculardiagnosics.aspx>).

<p><b>Indications</b></p>	<p>The Somatic Solid Tumour Panel (Lung) – SSTP (Lung) NGS assay offered by the Translational Pathology Centre can be used to concurrently screen for gene alterations in mutational hotspots and targeted regions in 12 genes* frequently implicated in lung cancer, where tyrosine kinase receptor-directed therapy has been shown to be efficacious. The selection of patients using molecular profiling greatly enhances the outcomes of treatment. In other cancer types, treatment with targeted therapy is also guided by the presence or absence of certain mutations. Prior screening of tumours for such mutations would therefore allow physicians to make an informed decision on the best treatment regimen for each patient.</p> <p>This test is suitable for patients following cancer treatment and for monitoring of response to treatment.</p> <p><b>* Genes covered in the panel:</b> <i>ALK, BRAF, CTNNB1, EGFR, ERBB2, ERBB4, KRAS, MET</i> (includes MET Exon 14 skipping detection), <i>NRAS, PIK3CA, PTEN and TP53</i>.</p>
<p><b>Specimen Required</b></p>	<p>Paraffin embedded tissue blocks can be sent to the Histopathology Section.</p> <p>Alternatively, unstained slides can be sent to the Histopathology Section. At least 8 sections of 8 µm thickness of tumour tissue (≥ 5 mm by 5 mm) should be prepared on uncoated slides, and sent with one H&amp;E slide, 4 µm thick with a coverslip as a reference slide.</p> <p>For smaller biopsies (&lt;5 mm by 5 mm), at least 12 sections of 6 µm thickness OR 15 sections of 5 µm thickness is required.</p> <p>Tumour content of the samples must be indicated and samples should optimally comprise of at least 30% but not less than 20% tumour cells (samples with less than 20% tumour cellularity will be rejected).</p> <p>DNA can only be accepted when FFPE tissue is not available. The laboratory only accepts DNA that is extracted or isolated in a CAP-accredited or CLIA-certified laboratory. Please call the lab for the requirements.</p>
<p><b>Method</b></p>	<p>In-house developed multiplexed polymerase-chain reaction (PCR) in 2 primer pools for the detection of gene variants in hotspots and targeted regions of 12 known genes associated with lung cancers.</p>

<b>Test Result</b>	Gene variants (SNVs, insertions, deletions) detected
<b>Turnaround Time</b>	8-10 working days. Up to 15 working days if repeat testing is required due to specimen quality issues.
<b>Day(s) Test Set up</b>	Tuesdays and Fridays

**Back To Previous Page** (<http://cms-sgh.sppub/Clinical-Departments-Centers/Pathology/Pathology-Handbook/Lab-Discipline-Special-Instructions/Tests/Pages/Forms/AllItems.aspx?category=TW9sZWN1bGFyIERpYWdub3N0aWNzIC0gT25jb2xvZ3k%3d-Op6529IeMB4%3d>) (<http://cms-sgh.sppub/Clinical-Departments-Centers/Pathology/Pathology-Handbook/Lab-Discipline-Special-Instructions/Tests/Pages/Forms/AllItems.aspx?category=TW9sZWN1bGFyIERpYWdub3N0aWNzIC0gT25jb2xvZ3k%3d-Op6529IeMB4%3d>)

---

©Copyright 2019 Singapore General Hospital, Outram Road, Singapore 169608