# FoundationOne® CDx Specimen Instructions

If submitted material does not meet the standard requirements listed below, the test may result in a qualified report\* or additional tumour material may be requested. This can lengthen testing time or result in an insufficient specimen for FoundationOne®CDx analysis.

\* In the event of a qualified report, alterations detected will be listed. However, due to the specimen quality, there may be additional alterations present that could not be detected.

# **INTENDED USE**

FoundationOne<sup>®</sup>CDx (F1CDx) is a next-generation, sequencing-based, in vitro diagnostic device. The test detects substitutions, insertion and deletion alterations (indels), and copy number alterations (CNAs) in 324 genes. It also identifies select gene rearrangements, as well as genomic signatures including microsatellite instability (MSI), tumour mutational burden (TMB) and genomic loss of heterozygosity (gLOH) for selected tumour types, using DNA isolated from formalin-fixed, paraffin-embedded (FFPE) tumour tissue specimens.

The test is intended to identify patients who may benefit from treatment with therapies in accordance with approved therapeutic product labelling. Additionally, F1CDx is intended to provide tumour mutation profiling to be used by qualified health care professionals in accordance with professional guidelines in oncology for patients with solid malignant neoplasms.

# HOW TO SELECT THE BEST SPECIMEN FROM MULTIPLE OPTIONS

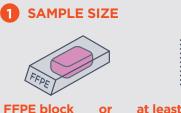
#### Has the patient been treated with targeted therapy?

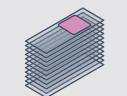
- NO
- Use the most recent available specimen.
- Choose the specimen with either the highest or largest tumour focus.
- Primary tumour or metastasis is acceptable.
- It is **critical** to use a post-targeted therapy specimen. Submitting a FoundationOne®Liquid CDx liquid biopsy test for solid tumours can be considered if:
- post-targeted therapy specimen is not available
- or the tissue obtained is insufficient.

# **OPTIMAL SPECIMEN REQUIREMENTS**

#### **Acceptable samples**

- Specimen types include tissue resections, small diagnostic biopsies, core-needle biopsies, fine-needle aspirations and effusion cytologies made into cell blocks.
- Tissue should be fixed using standard fixation methods to preserve nucleic acid integrity. The industry standard is 10% neutral-buffered formalin for 6-72 hours. Do not use other fixatives (Bouins, B5, AZF, Holland's).
  Please note: Fresh tissues are not acceptable!
- Do NOT decalcify with strong acids (e.g. hydrochloric, sulfuric, or picric acid). Decalcification degrades DNA in samples making it unusable for comprehensive genomic profiling. Samples containing bone can be softened by EDTA chelation.
- Samples can be submitted as paraffin blocks or **unbaked** unstained slides cut at 4-5 microns thick.



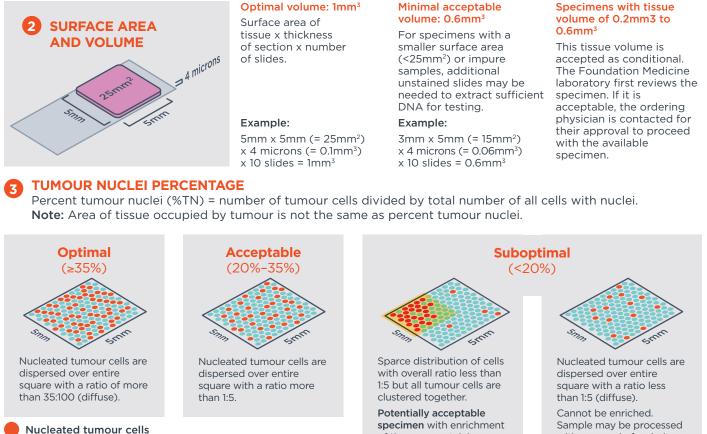


**at least 11 unstained slides** (positively charged and unbaked at 4–5 microns thick).

Use standard slides (appr. 26mm x 76mm) and standard tissue cassettes (appr. 30mm x 25mm x 4mm).

For blocks or slides outside these standards please contact Roche Customer Service for additional guidance.

**Please note:** Foundation Medicine will attempt to return submitted paraffin blocks to the declared address on the order form depending on country of origin regulations.



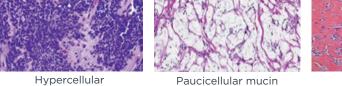
Normal cells

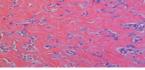
of the area containing tumour cells.

with approval of ordering physician if deemed acceptable after review at Foundation Medicine.

For liver specimens: Minimum tumour content is ≥40%. Since polyploidy is a common characteristic of hepatocytes, twice as many tumour cells would be needed to obtain enough tumour DNA for analysis. Higher tumour content may be required because hepatocyte nuclei have twice the DNA content of other somatic nuclei.

Be aware: tissue nucleated density modifies volume of tissue required. Areas of necrosis and fibrosis, extracellular mucin or other non-DNA containing material can decrease tissue density.





Paucicellular

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# SAMPLE ACQUISITION AND SHIPPING

- In New Zealand, IGENZ, an IANZ-accredited medical laboratory, works with Roche and healthcare professionals 1 to support sample acquisition for F1CDx tests. All orders are notified to IGENZ automatically and an IGENZ scientist will liaise with the laboratory pathologists to select the best sample for testing.
- IGENZ will pack the samples and Test Requisition Form into the F1CDx Shipping Kit, complete the shipping 2. documentation and arrange for pick-up and shipping from the IGENZ laboratory in Auckland.



Postal Address: PO Box 109113, Newmarket, Auckland 1149 Customer Services Team: 0800 880 177

More information can be found at www.foundationmedicine.co.nz.

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