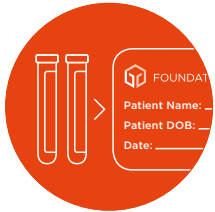


Specimen Collection Instructions

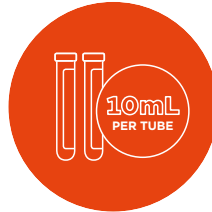
For analysis with FoundationOne® Liquid, follow these packaging steps when submitting specimens to Foundation Medicine, Inc. laboratory:



STEP 1

- ✓ Check the collection tubes provided in the FoundationOne Liquid Specimen Kit — liquid should be clear and without cloudiness or crystals
- ✓ Confirm each tube is labelled with the date of collection and two patient identifiers

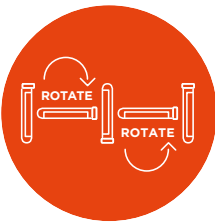
(Labels included in the FoundationOne Liquid Specimen Kit)



STEP 2

- ✓ Collect two tubes of peripheral whole blood (10mL per tube) using the collection tubes provided in the FoundationOne Liquid Specimen Kit:
 - As tubes contain chemical additives, avoid backflow to the patient
 - Collect specimen by venipuncture according to GP41*¹
 - Fill tubes completely (10mL per tube)

* As ctDNA samples typically decrease after chemotherapy, blood samples should be drawn shortly before chemotherapy dosing or several weeks after the previous dose.²



STEP 3

- ✓ Remove the tubes from the adapter and immediately mix by gentle inversion 8-10 times[†]
 - One inversion is a complete turn of the wrist 180° and back

[†] NOTE: inadequate or delayed mixing may result in inaccurate test results.



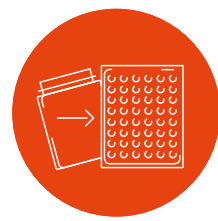
STEP 4

- ✓ Place filled collection blood tubes into the absorbent sleeve, then into the biohazard bag and seal



STEP 5

- ✓ Fold the gel pack over the biohazard bag



STEP 6

- ✓ Place all contents into the silver pouch and seal



STEP 7

- ✓ Place the samples, signed requisition form, pathology report and any other attachments into the Specimen Kit



STEP 8

- ✓ Ship specimen within 24 hours of collection and address to:
Accessioning, Clinical Laboratory
Foundation Medicine, Inc.
150 Second Street
Cambridge, MA 02141
 - On the same day as collection, ship via FedEx overnight delivery at ambient temperature
 - Drop the package at your site's designated FedEx pick up location or call +1.800.309.0530 to request a pick up



**TEMPERATURE IS IMPORTANT.
KEEP AT ROOM TEMPERATURE 6 - 37°C. DO NOT FREEZE.**

CURRENT GENE LIST †

FoundationOne Liquid is a pan-cancer ctDNA assay that interrogates 70 cancer-related genes (with selective sequencing for some genes) as listed below:³

Entire coding sequence (base substitutions, indels, copy number alterations).

<i>APC</i>	<i>AR</i>	<i>ATM</i>	<i>BRCA1</i>	<i>BRCA2</i>	<i>CCND1</i>	<i>CD274 (PD-L1)</i>	<i>CDH1</i>	<i>CDK4</i>
<i>CDK6</i>	<i>CDK12</i>	<i>CDKN2A</i>	<i>CHEK2</i>	<i>CRKL</i>	<i>EGFR</i>	<i>ERBB2</i>	<i>ERRF1</i>	<i>FGFR1</i>
<i>FGFR2</i>	<i>FOXL2</i>	<i>KRAS</i>	<i>MDM2</i>	<i>MET</i>	<i>MYC</i>	<i>MYCN</i>	<i>NF1</i>	<i>PALB2</i>
<i>PDCD1LG2 (PD-L2)</i>	<i>PTEN</i>	<i>PTPN11</i>	<i>RB1</i>	<i>SMO</i>	<i>STK11</i>	<i>TP53</i>	<i>VEGFA</i>	

Select Exons†

<i>ABL1</i>	<i>AKT1</i>	<i>ALK</i>	<i>ARAF</i>	<i>BRAF</i>	<i>BTK</i>	<i>CTNNB1</i>	<i>DDR2</i>	<i>ESR1</i>
<i>EZH2</i>	<i>FGFR3</i>	<i>FLT3</i>	<i>GNA11</i>	<i>GNAQ</i>	<i>GNAS</i>	<i>HRAS</i>	<i>IDH1</i>	<i>IDH2</i>
<i>JAK2</i>	<i>JAK3</i>	<i>KIT</i>	<i>MAP2K1 (MEK1)</i>	<i>MAP2K2 (MEK2)</i>	<i>MPL</i>	<i>MTOR</i>	<i>MYD88</i>	<i>NPM1</i>
<i>NRAS</i>	<i>PDGFRA</i>	<i>PDGFRB</i>	<i>PIK3CA</i>	<i>RAF1</i>	<i>RET</i>	<i>ROS1</i>	<i>TERT</i>	

Select Rearrangements

<i>ALK</i>	<i>EGFR</i>	<i>FGFR2</i>	<i>FGFR3</i>	<i>PDGFRA</i>	<i>RET</i>	<i>ROS1</i>
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Rearrangements/Fusions (6 Genes)

<i>ALK</i>	<i>EGFR</i>	<i>FGFR2</i>	<i>FGFR3</i>	<i>PDGFRA</i>	<i>RET</i>	<i>ROS1</i>
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† Current as of August 2018.

References:

1. Clinical and Laboratory Standards Institute (CLSI). Collection of Diagnostic Venous Blood Specimens. 7th ed. CLSI standard GP41, ISBN 1-56238-813-4; 2017.
2. Tie J et al. Ann Oncol 2015;26:1715-22.
3. FoundationOne Liquid Technical Information.

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