The quality of laboratory results is highly dependent upon proper specimen collection and handling. Listed below are specimen requirements and handling procedures for Tumor Profiles and Liquid Biopsies.

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<th>Profile</th>
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| Neo Comprehensive™ – Heme Cancers | 5 mL in EDTA tube | 2 mL in EDTA tube | Paraffin block preferred. Please use positively-charged slides and 10% NBF fixative. Do not use zinc or mercury fixatives (BS). | N/A | 0.5-1 cm² in RPMI | Biopsies and other surgical specimens: Minimum of ≥10mm² surface area with ≥20% tumor nuclei*  
Cytology cell blocks or FNA FFPE: Minimum ≥500 tumor cells with ≥20% tumor nuclei* |  
* Available for select tests, see website to confirm before sending  
- Requisitions must note specimen is FNA  
- FNA smears, unembedded FNA samples, or cytology cells in suspension are not accepted  
*10% NBF fixative only, decalcified samples not accepted |
| Neo Comprehensive™ – Myeloid Disorders | 5 mL in EDTA tube | 2 mL in EDTA tube | Paraffin block preferred. Please use positively-charged slides and 10% NBF fixative. Do not use zinc or mercury fixatives (BS). | N/A | 0.5-1 cm² in RPMI | Use cold pack for transport, making sure cold pack is not in direct contact with specimen. Use cold pack for transport, making sure cold pack is not in direct contact with specimen. For fresh specimens, ship same day as drawn whenever possible. (See notes below) |
| NeoTYPE® – AITL/Peripheral T-Cell Lymphoma, ALL, AML Prognostic, Discovery Profile for Hematologic Cancers, JMMI, Lymphoid Disorders, Lymphoma, MDS/CMML | 5 mL in EDTA tube | 2 mL in EDTA tube | N/A | N/A | N/A | FISH and IHC requirements for NeoTYPE® Cancer Profiles:  
FISH: 50-100 viable tumor cells per probe set  
IHC: The minimum number of viable tumor cells varies between 50-200 depending on the test requested. It is recommended for all IHC testing to submit >200 viable tumor cells.  
* Available for select tests, see website to confirm before sending  
- Requisitions must note specimen is FNA  
- FNA smears, unembedded FNA samples, or cytology cells in suspension are not accepted  
*10% NBF fixative only, decalcified samples not accepted |
| NeoTYPE® – CLL | 5 mL in EDTA tube | 2 mL in EDTA tube | Paraffin block preferred. Please use positively-charged slides and 10% NBF fixative. Do not use zinc or mercury fixatives (BS). | N/A | 0.5-1 cm² in RPMI | Use cold pack for transport, making sure cold pack is not in direct contact with specimen. For fresh specimens, ship same day as drawn whenever possible. (See notes below) |
| NeoTYPE® – Follicular Lymphoma | N/A | N/A | Paraffin block preferred. Please use positively-charged slides and 10% NBF fixative. Do not use zinc or mercury fixatives (BS). | N/A | N/A | FISH and IHC requirements for NeoTYPE® Cancer Profiles:  
FISH: 50-100 viable tumor cells per probe set  
IHC: The minimum number of viable tumor cells varies between 50-200 depending on the test requested. It is recommended for all IHC testing to submit >200 viable tumor cells.  
* Available for select tests, see website to confirm before sending  
- Requisitions must note specimen is FNA  
- FNA smears, unembedded FNA samples, or cytology cells in suspension are not accepted  
*10% NBF fixative only, decalcified samples not accepted |
| **Solid Tumor** |                  |             |                          |              |                          |                             |
| Neo Comprehensive™ – Solid Tumor | N/A | N/A | Paraffin block preferred. Please use positively-charged slides and 10% NBF fixative. Do not use zinc or mercury fixatives (BS). | N/A | N/A | FISH and IHC requirements for NeoTYPE® Cancer Profiles:  
FISH: 50-100 viable tumor cells per probe set  
IHC: The minimum number of viable tumor cells varies between 50-200 depending on the test requested. It is recommended for all IHC testing to submit >200 viable tumor cells.  
* Available for select tests, see website to confirm before sending  
- Requisitions must note specimen is FNA  
- FNA smears, unembedded FNA samples, or cytology cells in suspension are not accepted  
*10% NBF fixative only, decalcified samples not accepted |
| NeoTYPE® – DNA & RNA – Brain, Lung | N/A | N/A | Paraffin block preferred. Please use positively-charged slides and 10% NBF fixative. Do not use zinc or mercury fixatives (BS). | N/A | N/A | FISH and IHC requirements for NeoTYPE® Cancer Profiles:  
FISH: 50-100 viable tumor cells per probe set  
IHC: The minimum number of viable tumor cells varies between 50-200 depending on the test requested. It is recommended for all IHC testing to submit >200 viable tumor cells.  
* Available for select tests, see website to confirm before sending  
- Requisitions must note specimen is FNA  
- FNA smears, unembedded FNA samples, or cytology cells in suspension are not accepted  
*10% NBF fixative only, decalcified samples not accepted |
| NeoTYPE® – Breast, Cervical, Colorectal, Endometrial, Esophageal, Gastric, GI Predictive, GIST/Soft Tissue, Head and Neck, HRR, Liposarcoma Fusion, Liver/Biliary, Lung, Melanoma, Other Solid Tumor, Ovarian, Pancreas, Thyroid, Precision | N/A | N/A | Paraffin block preferred. Please use positively-charged slides and 10% NBF fixative. Do not use zinc or mercury fixatives (BS). | N/A | N/A | FISH and IHC requirements for NeoTYPE® Cancer Profiles:  
FISH: 50-100 viable tumor cells per probe set  
IHC: The minimum number of viable tumor cells varies between 50-200 depending on the test requested. It is recommended for all IHC testing to submit >200 viable tumor cells.  
* Available for select tests, see website to confirm before sending  
- Requisitions must note specimen is FNA  
- FNA smears, unembedded FNA samples, or cytology cells in suspension are not accepted  
*10% NBF fixative only, decalcified samples not accepted |
| **Liquid Biopsy** |                  |             |                          |              |                          |                             |
| NeoLAB® Solid Tumor and InVisionFirst® – Lung | Two x 10 mL Streck Cell-Free DNA BCT® tubes | N/A | N/A | N/A | Do not refrigerate. Special collection tubes and shipping requirements apply. Please contact Client Services for kits and see instructions provided in kit. | N/A |
| PIK3CA Mutation CDx Plasma | Please contact Client Services | N/A | N/A | N/A | Please contact Client Services | N/A |

*Ship same day as drawn whenever possible; specimens less than 7 days old preferred. To ensure sample stability, ship samples directly to NeoGenomics Aliso Viejo. NeoGenomics cannot accept any specimens (fresh or fixed) infected with Category A pathogens including, but not limited to, variant Creutzfeldt-Jakob (mad cow), Tularemia, Brucella, etc. FFPE specimens are acceptable for Tuberculosis only. For full details, see https://neogenomics.com/client-services/forms-and-kits.