

Special Testing Laboratory Available Testing Reference Document

This document lists the available testing for the Special Testing Laboratory.

| Flow Cytometry | | | | | | | |
|----------------|---|-----------------------|------------|---|---|--|--|
| Assay | Test Description | Minimum Sample Volume | Sample Age | Sample Type | Shipping | Turnaround Time | How to Order |
| CD34/45 | <ul style="list-style-type: none"> Provides viable CD45 cells (cells/μL), viable CD34 cell count (cells/μL), total CD45 cells (cells/μL), total CD34 cell count (cells/μL), CD34 viability (%), CD45 viability (%), and percentage of viable CD34 cells out of viable CD45 cells (%) Includes viability | 500 μ L | < 48 hours | <ul style="list-style-type: none"> Cord blood Whole blood (pre collection) Leukopak Mobilized HPC Isolated Cells | <ul style="list-style-type: none"> Fresh: Cold packs/wet ice (2 to 8°C) Frozen: Dry ice | <ul style="list-style-type: none"> Routine: 24 hours from receipt STAT: 2 hours from receipt | Email the completed <i>Request for Flow Cytometry Testing</i> and shipping tracking number/expected time of sample drop off (if local) to qc@lifesouth.org . |
| TBNK | <ul style="list-style-type: none"> Provides cell count of CD45, CD19, CD3, CD4, CD8, CD19 and CD56 cells (cells/μL) Provides percentage out of CD45 cells (%) Does not include viability | 500 μ L | < 48 hours | <ul style="list-style-type: none"> Cord blood Whole blood (pre collection) Leukopak Mobilized HPC Isolated Cells | <ul style="list-style-type: none"> Fresh: Cold packs/wet ice (2 to 8°C) Frozen: Dry ice | 24 hours from receipt | |
| Viability only | Provides percentage of viable CD45 cells (%) | 500 μ L | < 48 hours | <ul style="list-style-type: none"> Cord blood Whole blood (pre collection) Leukopak Mobilized HPC Isolated Cells | <ul style="list-style-type: none"> Fresh: Cold packs/wet ice (2 to 8°C) Frozen: Dry ice | <ul style="list-style-type: none"> Routine: 24 hours from receipt STAT: 2 hours from receipt | |

Not Under Document Control if Printed

| Genotyping | | | | | | | |
|---|--|-----------------------|------------|-------------|-------------------------------|---|--|
| Assay | Test Description | Minimum Sample Volume | Sample Age | Sample Type | Shipping | Turnaround Time | How to Order |
| ABO Genotyping | Predicted ABO blood grouping based on SNP analysis, including some of the more commonly encountered subtypes | ≥ 3 mL | < 10 days | EDTA tube | Cold packs/wet ice (2 to 8°C) | <ul style="list-style-type: none"> • Routine: 7 days • STAT: 3 days | Email the completed <i>Request for Special Testing Laboratory Services</i> along with the shipping tracking number/expected time of sample drop off (if local) to qc@lifesouth.org . |
| Genotyping for assorted blood group systems | <ul style="list-style-type: none"> • Genotype/phenotype prediction for an extended variety of RBC and platelet antigens <p>Able to target most ISBT-listed groups and molecular variants, subject to prior validation</p> | ≥ 3 mL | < 10 days | EDTA tube | Cold packs/wet ice (2 to 8°C) | 7 days | |
| RBC Genotyping (IDCORE XT) | IVD assay that provides predicted genotype/phenotype of common RBC antigens, including MNS, RHCE, Kell, Kidd, Duffy, Diego, Dombrock, Colton, Cartwright, and Lutheran systems | ≥ 3 mL | < 10 days | EDTA tube | Cold packs/wet ice (2 to 8°C) | <ul style="list-style-type: none"> • Routine: 7 days • STAT: 3 days | |
| RH Genotyping | Genotype/phenotype characterization of RHD and RHCE system, including commonly encountered weak and partial antigen expressing variants | ≥ 3 mL | < 10 days | EDTA tube | Cold packs/wet ice (2 to 8°C) | <ul style="list-style-type: none"> • Routine: 7 days • STAT: 3 days | |

HLA/Platelet Refractory Workups

| Assay | Test Description | Minimum Sample Volume | Sample Age | Sample Type | Shipping | Turnaround Time | How to Order |
|---|--|-----------------------|------------|-------------------------|-------------------------------|---|--|
| Donor HLA Antibody Screen (Class I and II) | Detection of HLA class I and II antibodies | ≥ 3 mL | < 10 days | Serum tube or EDTA tube | Cold packs/wet ice (2 to 8°C) | 2 days | Email the completed <i>Request for Special Testing Laboratory Services</i> along with the shipping tracking number/expected time of sample drop off (if local) to qc@lifesouth.org . |
| Donor HLA Typing High Resolution (Send out) | High-resolution typing of A, B, C, DRB1, DRB345, DQB1, and DPB1 | ≥ 3 mL | < 10 days | EDTA or ACD tube | Cold packs/wet ice (2 to 8°C) | <ul style="list-style-type: none"> 14 to 30 days | |
| HLA Antibody Identification Class I | Identification of HLA Class I antibodies, including cPRA calculations | ≥ 3 mL | < 10 days | Serum tube or EDTA tube | Cold packs/wet ice (2 to 8°C) | <ul style="list-style-type: none"> Routine: 7 days STAT: 3 days | |
| Patient HLA Antibody Class I Screen | Detection of HLA class I antibodies | ≥ 3 mL | < 10 days | Serum tube or EDTA tube | Cold packs/wet ice (2 to 8°C) | <ul style="list-style-type: none"> Routine: 7 days STAT: 3 days | |
| Patient HLA Class 1 Low Resolution | Low resolution (serological equivalent) for A and B loci for platelet matching | ≥ 3 mL | < 10 days | EDTA or ACD tube | Cold packs/wet ice (2 to 8°C) | <ul style="list-style-type: none"> Routine: 7 days STAT: 3 days | |
| Platelet Antibody Identification | Detection and identification of HPA1, 2, 3, 4, and 5 antibodies | ≥ 3 mL | < 10 days | Serum tube or EDTA tube | Cold packs/wet ice (2 to 8°C) | 7 days | |

| Assorted | | | | | | | |
|--------------------------|--|-----------------------|--|-------------------|-------------------------------|-----------------|--|
| Assay | Test Description | Minimum Sample Volume | Sample Age | Sample Type | Shipping | Turnaround Time | How to Order |
| Deionized Water QC | <ul style="list-style-type: none"> Detection of bacteria/organisms in clinical laboratory reagent water Reported as acceptable (≤ 10CFU/mL) or unacceptable (> 10CFU/mL) | 50 mL | Must be received within 24 hours of collection | Sterile container | Cold packs/wet ice (2 to 8°C) | 2 weeks | Email the completed <i>External Deionized Water QC Worksheet</i> along with the shipping tracking number/expected time of sample drop off (if local) to qc@lifesouth.org . |
| Hemoglobinopathy Testing | <ul style="list-style-type: none"> Testing by Capillary electrophoresis Detection of abnormal hemoglobin | ≥ 3 mL | < 7 days at 2 to 8°C | EDTA | Cold packs/wet ice (2 to 8°C) | 7 days | Email the completed <i>Request for Special Testing Laboratory Services</i> along with the shipping tracking number/expected time of sample drop off (if local) to qc@lifesouth.org . |

| Product Quality Control | | | | | | | |
|--|--|-----------------------|------------|--------------|----------|-----------------|---|
| Assay | Test Description | Minimum Sample Volume | Sample Age | Sample Type | Shipping | Turnaround Time | How to Order |
| Cryoprecipitated Components - Normal Cryo QC | Factor VIII and Fibrinogen testing on Cryo units | NA | NA | Frozen Units | Dry ice | 2 weeks | Email the completed <i>Sample Submission for Cryoprecipitated Components - External Customers</i> along with the shipping tracking number/expected time of sample drop off (if local) to qc@lifesouth.org . |
| Cryoprecipitated Components - Normal Cryo QC | Fibrinogen testing on PRCFC/IFC units | NA | NA | Frozen Units | Dry ice | 2 weeks | |
| <p>Sysmex XN-10 Alternative Assessment for Transfusion-Related Cell Counts (Platelet Count and WBC in Platelet/RBC Products): Email Kelly Anderson for more details at klanderson@lifesouth.org.</p> | | | | | | | |