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| **Blood Specimen Collection Containers** |
| **Purpose** | This procedure provides definition of acceptable BLOOD SPECIMEN COLLECTION CONTAINERS at Children’s Minnesota. |
| **Policy Statements** | * Specific instructions for the proper collection and handling of specimens must be made available to laboratory personnel.
* Blood collection tubes and collection devices are used within their expiration dates and stored per manufacturer's instructions.
* This procedure applies to all laboratory staff.
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| **Procedure** | Follow the activities in the table below for using BLOOD SPECIMEN COLLECTION CONTAINERS.

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| **Step** | **Action** |
| 1 | Specimen collection containers introduced into the laboratory will have correlation studies completed before they are put into service for testing patient specimens.1. The laboratory director should determine the scope of testing required.
2. Approval must be obtained from the Institutional Review Board if obtaining additional blood volume for testing is required.
3. Perform parallel testing of a minimum of 20 specimens.
4. Specimens will be drawn into both containers at the same time from the same puncture.
5. Identical testing will be performed on both specimens.
6. Results will be evaluated and correlations reviewed using defined acceptance criteria, for example, CLIA ’88 guidelines.
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| 23 | Acceptable blood specimen collection containers:Refer to [SCM 3.00.a1 Blood Collection Containers Pictures](https://starnet.childrenshc.org/References/labsop/gen/speccol/scm-3.00.a1-blood-collection-container-pictures.pdf)

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| **Container Type** | **Volume** |
| BD Microtainer® MAP Microgard Closure Tube with K2EDTA (363706) | 250 - 500μl |
| BD Microtainer® Microgard Closure Plasma Separator Tube with Lithium Heparin (365985)  | 400 – 600μl |
| BD Microtainer® Microgard Closure Tube No Additive (Red) (365963) | 250 – 500μl |
| BD Microtainer® Microgard Closure Plasma Separator Tube with Lithium Heparin amber (365987) | 400 – 600μl |
| BD Vacutainer Brand Tube with Buffered Na Citrate Solution | 1.8ml, 2.7ml |
| BD Vacutainer Brand Tube with Lithium Heparin | 3ml |
| BD Vacutainer PST Gel and Lithium Heparin | 3ml |
| BD Vacutainer Brand Tube with (K2) EDTA Solution | 2ml, 6ml, 10ml |
| BD Vacutainer Serum Tube with No Additive | 7ml, 10ml |
| BD Vacutainer Brand Tube with Sodium Heparin | 4ml, 10ml |
| BD Vacutainer Brand Tube with Acid Citrate Dextrose Solution (B) | 6ml |
| BD Vacutainer Brand Tube with Acid Citrate Dextrose Solution (A) | 8.5ml |
| BD Bactec Peds Plus/F Aerobic Blood Culture Bottle | 1 –3ml |
| BD Bactec Standard Anaerobic/F Blood Culture Bottle | 3-10ml |
| Radiometer safe Clinitubes with Lithium Heparin | 125μl |
| Portex Arterial Blood Sample Syringe with Lithium Heparin | 1ml |
| Wampole Isolator Microbial Tubes  | 1.5ml, 10ml |
| Monoject EDTA (Na2) Metal Free | 7ml |
| Monoject No Additive Metal Free  | 7ml |
| Pyruvate Tube (6% Perchloric Acid) | 1ml |
| Quantiferon-TB Gold Plus Collection Kit (4 tubes) | 1ml each |

Lab Tube GuideRefer to [SCM 3.00a2 Lab Tube Guide](https://starnet.childrenshc.org/departments/lab/pdf/lab-tube-guide.pdf) for tube types, description, reference picture, and combining tests.  |

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| **References** |  |
| 1. Laboratory General Checklist, College of American Pathologists, 325 Waukegan Road, Northfield, IL 60093-2750, [www.cap.org](http://www.cap.org), 04.21.2014
2. BD Microtainer ® MAP Microtube for Automated Process Insert, Becton, Dickinson and Company, Franklin Lakes, NJ, 3/2011
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| **Historical Record** |  |  |  |
| Version | Written/Revised by: | Effective Date: | Summary of Revisions |
|  | Unknown | 1991 | Laboratory Handbook version |
|  | Daniel Shaw | 11/2010 | Blood Specimen Collection Containers |
|  | Daniel Shaw | 6/2013 | Blood Specimen Collection Containers |
|  | Linda Lichty | 01/20/2015 | Revised for Microgard microtainers, revised policy, revised validation to 20 samples |
|  |  | Dawit Getachew | 05/21/2021 | Step 3: Lab tube guide added |