

STEM CELL LABORATORY (STCL)



| DOCUMENT NUMBER: STCL-PROC-047 FRM1 |
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| DOCUMENT TITLE: CliniMACS TCR alpha beta+ T-Cell / CD19+ B-Cell Reduction Worksheet FRM1 |
| DOCUMENT NOTES: |

Document Information

Revision: 01 Vault: STCL-Processing-rel

Status: Release Document Type: STCL

Date Information

Creation Date: 23 Aug 2021 Release Date: 01 Sep 2021

Effective Date: 01 Sep 2021 Expiration Date:

Control Information

Author: WATER002

Owner: WATER002

Previous Number: None

Change Number: STCL-CCR-524

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STCL-PROC-047 FRM1 CliniMACS TCRαβ+ T-Cell / CD19+ B-Cell Reduction Worksheet

| Recipient Name: | History #: | ABO/Rh: |
|--|-------------------------|------------------------------------|
| Recipient Name: | History #: | ABO/Rh: |
| (* In the event that products are pooled barcodes of each of the pooled products product.) BARCODE | | |
| Recipient's Weight (kg): | Product Desc | ription: |
| Date of Procedure: | Performing T | echnologist: |
| Product/Procedure Limitations : WBC 40 x 10 ⁹ ; 1 vial of CliniMACS And WBC 80 x 10 ⁹ ; 2 vials of CliniMACS 80 x 10 ⁹ ; 2 vials of CliniMACS 80 x 10 ⁹ ; 2 vials of CliniMACS 80 x 10 ⁹ ; 2 vials of CliniMACS 80 x 10 ⁹ ; 2 vials of CliniMACS 80 x 10 ⁹ ; 2 vials of CliniMACS 80 x 10 ⁹ ; 2 vials of CliniMACS 80 x 10 ⁹ ; 2 vials of CliniMACS 80 x 10 ⁹ ; 2 vials of CliniMACS 80 x 10 ⁹ ; 2 vials of CliniMACS 80 x 10 ⁹ ; 2 vials of CliniMACS 80 x 10 ⁹ ; 2 vials of CliniMACS 80 x 10 ⁹ ; 2 v | | |
| Labeled cells $< 50 \times 10^8$; 1 liter CliniMA | | |
| | | |
| Label cells 5-13 x 10 ⁹ ; 2 liter CliniMA0 Waster Bag, Cell collection bag | CS PBD/EDTA Buffer; 100 | 0mL Negative fraction bag, Buffer |
| Label cells 13-20 x 10 ⁹ ; 3 liter CliniMA Waster Bag, Cell collection bag | ACS PBD/EDTA Buffer; 10 | 00mL Negative fraction bag, Buffer |

IMPORTANT NOTE:

Labeling for combined TCRαβ+ / CD19+ depletion is performed within two-step procedure.

 $\underline{\mathbf{1^{st}\ step}}$: TCRα/β labeling requires a sample volume of 95.0 mL plus one vial of CliniMACS TCRαβ-Biotin

2nd step: Anti-Biotin / CD19 labeling requires a sample volume of 175.0 mL plus two vials of CliniMACS Anti-Biotin Reagent plus two vials of CliniMACS CD19 Reagent

Pre-Overnight Testing (if applicable)

| Remove sample for cell count, viability, flow, ABC | O, sterility, and nuncs: |
|--|--|
| Product Cell Count (x 10 ⁶): | Product Volume (mL): |
| Total Cells (x 10 ⁹): | Viability: |
| Sterility Bottles Inoculated: | Nuncs: |
| Pre-Sample Testing (Sample A) | |
| Remove sample for cell count, viability, flow, and remove samples for ABO, sterility, and nuncs: | <u> </u> |
| Product Cell Count (x 10 ⁶): | Product Volume (mL): |
| Total Cells (x 10 ⁹): | Viability: |
| Sterility Bottles Inoculated: | Nuncs: |
| Sample taken to Flow and HPCA: | |
| Working Buffer Prepared (20 mL of 25% HSA to 3 | 3 liters of PBS/EDTA buffer): |
| Platelet Wash (Dilution Step): Dilute the product 1:3 with 0.5% HSA-supplement exceeding a total volume 600ml | ented CliniMACS PBS/ADTA Buffer, but not |
| Transfer well mixed product to a labeled 600 mL transfer well mixed product to | ansfer pack and weigh to obtain volume: |
| Volume of product multiple by 2:grams | (amount of buffer to add) |
| Actual amount of PBS added:grams | |
| Total volume of product and buffer:gr STCL-PROC-047 FRM1 CliniMACS TCRαβ+ T-Cell / CD1 Stem Cell Laboratory, DUMC Durham, NC | |

| Centrifuge at room temperature at 980 RPM for 15 minutes, no brake : |
|---|
| Remove from centrifuge, let hang 10 minutes, and express <u>all</u> supernatant: • Volume expressed: grams |
| • Volume remaining in cell bag:grams |
| • Volume of buffer to add: grams \circ Target volume = 95 ± 5 mLs for $< 60 \times 10^9$ TNC (95grams-106grams) |
| • Final volume:grams (divide by 1.06 to convert to mL)mL |
| Mix cells gently and thoroughly: |
| Adding IVIG: Volume IVIG added: mL |
| Incubate for 5 minutes: |
| Cell Processing – 1 st Labeling Primary labeling of TCRα/β positive cells: One vial of CliniMACS TCRαβ-Biotin Reagent (7.5 mL) is sufficient for 60 x 10 ⁹ TNC and 24 x 10 ⁹ TCRα/β-positive cells |
| Optimal labeling requires a sample volume of 95 mL plus the entire volume of one vial of CliniMACS $TCR\alpha/\beta$ -Biotin. |
| Inject COLD TCRαβ-Biotin (followed by a syringe of air): |
| Amount of reagent injected: |
| Time reagent injected/incubation start time: |
| Incubation stop time: |
| Incubate for 30 minutes at room temperature with gentle rotating/mixing every 5 minutes: |
| Wash I: |
| Weigh to obtain volume:grams |
| Volume of product subtracted from 600:grams (amount of buffer to add) |
| Actual amount of PBS added:grams |
| |

| Total volume of product and buffer:grams |
|---|
| Centrifuge at room temperature at 1200 RPM for 15 minutes, no brake : |
| Remove from centrifuge, let hang 10 minutes, and express <u>all</u> supernatant: |
| • Volume expressed:grams |
| Mix cells gently and thoroughly: |
| Wash II |
| Weigh to obtain volume:grams |
| Volume of product subtracted from 600:grams (amount of buffer to add) |
| Actual amount of PBS added:grams |
| Total volume of product and buffer:grams |
| Centrifuge at room temperature at 1200 RPM for 15 minutes, no brake : |
| Remove from centrifuge, let hang 10 minutes, and express <u>all</u> supernatant: |
| • Volume expressed:grams |
| • Volume remaining in cell bag:grams |
| ** Adjusting the cellular product; transfer cell into new 600ml bag, filter clumped (if needed) ** |
| Volume of buffer to add: grams Target volume = 175 ± 5 mLs (186 grams-196 grams) |
| • Final volume:grams (divide by 1.06 to convert to mL)mL |
| Mix cells gently and thoroughly: |
| Cell Processing – 2 nd Labeling Secondary labeling of TCRαβ-positive cells: Two vials of CliniMACS Anti-Biotin Reagent (2x7.5ml) are sufficient for labeling of a cell product containing up to 80 x 10 ⁹ TNC |
| Two vials of CliniMACS CD19 Reagent (2x7.5ml) are sufficient for labeling up to 10×10^9 CD19- |

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positive cells out of total up to 80 x 109 TNC

Optimal labeling requires a sample volume of 175ml plus the entire volume of two vials of CliniMACS Anti-Biotin Reagent and two vials of CliniMACS CD19 Reagent Inject **COLD** Anti-Biotin Reagent (followed by a syringe of air): Amount of reagent injected: Time reagent injected: Inject cold CD19 Reagent: Amount of reagent injected: Time reagent injected/incubation start time: Incubation stop time: Incubate for 30 minutes at room temperature with gentle rotating/mixing every 5 minutes: Wash III: Weigh to obtain volume: grams Volume of product subtracted from 600: grams (amount of buffer to add) Actual amount of PBS added: _____ grams Total volume of product and buffer: grams Centrifuge at room temperature at 1250 RPM for 15 minutes, **no brake**: Remove from centrifuge, let hang 10 minutes, and express <u>all</u> supernatant: • Volume expressed: grams • Volume remaining in cell bag: grams • Volume of buffer to add: __ grams \circ Target volume = 150 \pm 5 mLs (154 grams to 164 grams)

** Ensure the cell concentration adjusted does not exceed 400 x 10⁶ WBC

Final volume: grams (divide by 1.06 to convert to mL) mL.

| <u>Pre-CliniMACS Testing (Sample B)</u> | |
|--|--|
| Remove 1.0 mL for cell count, viability, flow, and | d HPCA: |
| Product Cell Count (x 10 ⁶): | Product Volume (mL): |
| Total Cells (x 10 ⁹): | Viability: |
| Cell Processing – CliniMACS Depletion | |
| In the BSC, inject 60 mL of air to product bag pri | or to connecting to tubing set: |
| Insert a Plasma Transfer Set with a female luer ad | lapter into a 300 mL labeled transfer pack: |
| Weigh the pack/transfer set and record weight (tar Unpack the tubing set under the hood, tighten the luer connector on the tubing set: | re weight for the final product): connectors, and attach the cell collection bag to the |
| the pre system filter:Remove the top cap from pre-system filter (included with set): | e of the drip chamber: f the pre system filter and firmly insert the spike into and connect to the blunt end of Spike Connect CL-PROC-018 for further connection instructions |
| Connect the cell preparation bag to the pre system Clamp the tubing below the bubble trap: Remove the cap from the pre system filter | |
| Connect the buffer bag to the tubing set: Clamp the tubing below the spike on the to Remove the cap from the tubing set spike | |
| Set up the CliniMACS: • Separation program used: Tubing Set used: • Ref. No. of Tubing Set: • Lot number of Tubing Set: | |

• Expiration date of Tubing Set:

Input of sample parameters (Sample B)

| Percentage of labeled cells: | CD19-positive events including unspecific biding e.g to |
|---|---|
| NOTE : Prior to initiation of procedure on Clin open/unclamped. | niMACS ensure the blue clamp of the transfer set is |
| Date/time sample loaded on CliniMACS: | |
| Cell Processing - Post Magnetic Separation | |
| Process Code Number: | |
| Weigh the cell collection bag (subtract the pre- | determined tare weight): |
| Weight if the Target Cell Fraction | grams (divide by 1.06 to convert to mL) |
| <u>Post-Selection Testing – Target Cell Fraction</u> | n (Sample C) |
| Remove 2.0 mL for cell count, viability, flow, | HPCA, endotoxin, and Gram stain: |
| Product Cell Count (x 10 ⁶): | Product Volume (mL): |
| Total Cells (x 10 ⁹): | Viability: |
| Sample taken to Flow and HPCA: | |
| Sample sent for endotoxin testing: | _ |
| Sample sent for STAT Gram stain: | _ |
| Non-Target Cell Fraction (Sample D) Weight of Non-Target Cell bag (subtract the pre Remove 0.5mL for cell count and flow | re-determined tare weight): |
| Optional: Calculation of the weight of the W Weight of Buffer Waste Bag (subtract the pre- Remove 10 mL for cell count and flow labeled | determined tare weight): |
| Post-Selection Wash | |
| Wash Media Prepared (10 mL of 25% HSA to | 100 mL Plasma-Lyte A): |
| STCL-PROC-047 FRM1 CliniMACS TCR $\alpha\beta$ + T-Cell / Stem Cell Laboratory, DUMC Durham, NC | CD19+ B-Cell Reduction Worksheet |

| Transfer ~25 mL of cells to each conical centrifuge | tube, fill with wash media: |
|--|------------------------------------|
| • NOTE : Number of conical centrifuge tuber | s is determined by product volume. |
| | |
| Centrifuge at room temperature at 1800 RPM for 1. | 5 minutes, no brake : |
| | |
| Post-Wash Testing (Sample To Infuse) | |
| | |
| Remove 0.2 mL for cell count and viability: | |
| | |
| Product cell count (x 10 ⁶): | Product Volume (mL): |
| | |
| Total Cells (x 10 ⁹): | Viability: |
| G. III. B. II. I. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | // |
| Sterility Bottles Inoculated (5.0 mL of supernatant | /bottle): |
| D 4 W 1 D 4 D | |
| Post-Wash Percent Recovery: | |

Summarizes data analysis:

| Fraction | Volume (mL) | WBC Concentration (x10 ⁶ /mL) | Total WBC (x10 ⁹) | TCRα/ β (%) | Total TCRα/ β ⁺ cells (x10 ⁹) | CD19 ⁺ (%) | Total CD19 ⁺ cells (x10 ⁹) | Viability (%) |
|-----------------|----------------|--|-------------------------------------|----------------|---|-----------------------|--|---------------|
| Leukapheresis | | | | | | | | |
| Product | | | | | | | | |
| (Sample A) | | | | | | | | |
| Original (after | | | | | | | | |
| sample | | | | | | | | |
| preparation) | | | | | | | | |
| (Sample B) | | | | | | | | |
| Target cells = | | | | | | | | |
| TCRα/β/CD1 | | | | | | | | |
| 9-depleted | | | | | | | | |
| (Cell | | | | | | | | |
| collection | | | | | | | | |
| Bag) | | | | | | | | |
| (Sample C) | | | | | | | | |
| Non-Target | | | | | | | | |
| cells = labeled | | | | | | | | |
| (Non target | | | | | | | | |
| cell Bag) | | | | | | | | |
| (Sample D) | | | | | | | | |
| Optional: | | | | | | | | |
| Buffer Waste | | | | | | | | |
| Bag (Wash | | | | | | | | |
| Fraction) | | | | | | | | |

| Depletion efficiency of TCRαβ ⁺ cells: | <u>Calculation:</u> The depletion efficiency (-logP) describes -logP = -log (#TCR $\alpha\beta^+$ and CD19 ⁺ respec | | |
|--|---|-------------------------|---|
| Another important parameter is the yield concerning how many TCRα/β⁻ and CD19⁻ negative cells were lost during the separation procedure % yield = # (TCRαβ⁻ and CD19⁻) target fraction * 100 / # (TCRαβ⁻ and CD19⁻) origin fraction Yield TCRαβ⁻ and CD19⁻ cells: COMMENTS: I certify that all reagents and supplies used in the processing of these samples show no signs of contamination, irregularities, defects or flaws. Date Initials I certify that all heat sealed tubing and all sterile welded tubing used in the processing of these samples exhibit no signs of leakage, irregularities, defects or flaws. Date Initials I certify that the biological safety cabinet (BSC) used to process these cellular products was cleaned BEFORE and AFTER the procedure. | Depletion efficiency of TCRαβ ⁺ cells: | | |
| lost during the separation procedure % yield = # (TCRαβ⁻ and CD19⁻) target fraction * 100 / # (TCRαβ⁻ and CD19⁻) origin fraction Yield TCRαβ⁻ and CD19⁻ cells: COMMENTS: I certify that all reagents and supplies used in the processing of these samples show no signs of contamination, irregularities, defects or flaws. Date Initials I certify that all heat sealed tubing and all sterile welded tubing used in the processing of these samples exhibit no signs of leakage, irregularities, defects or flaws. Date Initials I certify that the biological safety cabinet (BSC) used to process these cellular products was cleaned BEFORE and AFTER the procedure. | Depletion efficiency of CD19 ⁺ cells: | | |
| Yield TCRαβ ⁻ and CD19 ⁻ cells: COMMENTS: I certify that all reagents and supplies used in the processing of these samples show no signs of contamination, irregularities, defects or flaws. Date Initials I certify that all heat sealed tubing and all sterile welded tubing used in the processing of these samples exhibit no signs of leakage, irregularities, defects or flaws. Date Initials I certify that the biological safety cabinet (BSC) used to process these cellular products was cleaned BEFORE and AFTER the procedure. | · · · · · · · · · · · · · · · · · | concerning how many | TCRα/β ⁻ and CD19 ⁻ negative cells were |
| COMMENTS: I certify that all reagents and supplies used in the processing of these samples show no signs of contamination, irregularities, defects or flaws. Date Initials I certify that all heat sealed tubing and all sterile welded tubing used in the processing of these samples exhibit no signs of leakage, irregularities, defects or flaws. Date Initials I certify that the biological safety cabinet (BSC) used to process these cellular products was cleaned BEFORE and AFTER the procedure. | % yield = # (TCR $\alpha\beta$ and CD19 target fracti | on * 100 / # (TCRαβ - ε | and CD19 ⁻) origin fraction |
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| exhibit no signs of leakage, irregularities, defects or flaws. Date Initials I certify that the biological safety cabinet (BSC) used to process these cellular products was cleaned BEFORE and AFTER the procedure. | , , | Date | Initials |
| I certify that the biological safety cabinet (BSC) used to process these cellular products was cleaned BEFORE and AFTER the procedure. | | | used in the processing of these samples |
| BEFORE and AFTER the procedure. | | Date | Initials |
| Date Initials | · | (BSC) used to process | s these cellular products was cleaned |
| | - | Date | Initials |

PROCESSING LOT NUMBERS

N/A - Not Applicable (supply not used)

* See Supply Management Log

| ITEM | SUPPLIER | LOT # NUMBER | EXPIRATION DATE | USED |
|------------------------------------|-----------------|-----------------|-----------------|------|
| Alcohol Pads | Cardinal Health | | | |
| Albumin – human 25% | Duke Pharmacy | | | |
| BacT/Alert AST | Biomerieux | | | |
| BacT Alert NST | Biomerieux | | | |
| ChloraPrep® SEPP Applicators | CareFusion | | | |
| Cryogenic Storage Bags (250ml) | Origen | | | |
| Cryogenic Storage Bags (50ml) | Origen | | | |
| DMSO | Protide Pharm. | | | |
| Needles 16 Gauge | BD Medical | | | |
| Needles 19 Gauge | BD Medical | | | |
| Spinal Needle 18 Gauge | BD Medical | | | |
| Plasmalyte-A | Baxter | | | |
| Sodium Chloride 0.9% | Hospira | | | |
| PBS/EDTA Buffer | CliniMACS | | | |
| CliniMACS TCRα/β-Biotin | CliniMACS | | | |
| Reagent | | | | |
| CliniMACS Anti-Biotin Reagent | CliniMACS | | | |
| CliniMACS CD19 Reagent | CliniMACS | | | |
| IgG (Duke Pharmacy) | | | | |
| CliniMACS Depletion Tubing Set | CliniMACS | | | |
| Plasma Transfer Set (spike-needle) | Fenwal | | | |
| Plasma Transfer Set (pinch clamp) | Charter Medical | | | |
| Blood Transfusion Filter | Haemonetics | | | |
| Sampling Site Coupler | Fenwal | | | |
| Sterile Docking Wafers | Terumo | | | |
| | Medical | | | |
| Filter | Codan | | | |
| Stopcock (99% DMSO resistant) | Tyco | | | |
| Syringe 3 ml | BD Medical | | | |
| Syringe 5 ml | BD Medical | | | |
| Syringe 10 ml | BD Medical | | | |
| Syringe 20 ml | BD Medical | | | |
| Syringe 30 ml | BD Medical | | | |
| Syringe 60 ml | BD Medical | | | |
| Transfer Pack 300 ml | Fenwal | | | |
| Transfer Pack 600 ml | Fenwal | | | |
| Stopcock | Smiths Medical | | | |

KEY EQUIPMENT USED IN PROCESSING

| EQUIPMENT | MANUFACTURE | SERIAL / ID | √ if used or N/A |
|---|-------------------------|---|---------------------|
| | | NUMBER | |
| BSC (Circle ONE) | BAKER NUAIRE OTHER | | |
| CENTRIFUGE # (Complete below <u>if used</u>) | SORVALL RC3B PLUS | (Check one) 🗆 100100184 | |
| Check Centrifuge used (if applicable) | ALLEBRA | □ AK03F06 | |
| TUBE SEALER | SEBRA | (Check one) \square 0823 \square 0363 | |
| CLINIMACS | MILTENYI | (Check one) \square 408 \square 411 | |
| STERILE WELDER | TERUMO | 60071 | |
| CONTROL RATE FREEZER (Model 7452) | CRYOMED | (Check one) 🗆 507471 - 154 | |
| | ThermoScientific | □ 507471 - 155 | |
| MICROSCOPE | OLYMPUS BH-2 | 216086 | |
| SCALE / BALANCE | METTLER TOLEDO (PG3001) | (Check one) 🗆 1116372248 | |
| | OHAUS (SPX6201) | □ C039175306 | |
| REFRIGERATOR (Model GP12W1AFR) | REFRIG (COMBO) | 0809466-A08129-02 | |
| REFRIGERATOR (Blood Bank) | HARRIS | V26T136614WT | |
| PIPETS | (Document on next page) | | |
| | | | |
| | | | |
| | | | |

| PIPETS | LOCATION | SERIAL# | Check ✓ if Pipet Used (<i>Leave blank if</i> not used) |
|----------------------------------|------------|-----------|---|
| Gilson P-20 | Processing | G8011587 | |
| Gilson P-20 | Processing | M12134J | |
| Gilson P-20 | Processing | N17205D | |
| Gilson P-20 | Processing | C19628D | |
| Gilson P-20 | Processing | K18317A | |
| Gilson P-20 | Processing | K18323A | |
| Gilson P-200 | Processing | E14789J | |
| Gilson P-200 | Processing | M11107G | |
| Gilson P-200 | Processing | A8520517 | |
| Gilson P-200 | Processing | D8522323 | |
| Gilson P-200 | Processing | N10367D | |
| Rainin Pipet-Lite XLS L-200 | Processing | J1269538T | |
| Rainin Pipet-Lite XLS L-200 | Processing | I1261887T | |
| Rainin Pipet-Lite XLS L-200 | Processing | D1326636T | |
| Rainin Pipet-Lite XLS L-200 | Processing | J1269359T | |
| Rainin Pipet-Lite XLS L- 1000 | Processing | C1321620T | |
| Rainin Pipet-Lite XLS L- 1000 | Processing | C1321482T | |
| Rainin Pipet-Lite SL-300 | Processing | I0985193K | |

| TECHNOLOGIST'S SIGNATURE: | |
|---------------------------|--|
| | |
| | |
| DATE: | |

Signature Manifest

Document Number: STCL-PROC-047 FRM1 **Revision:** 01

Title: CliniMACS TCR alpha beta+ T-Cell / CD19+ B-Cell Reduction Worksheet FRM1

Effective Date: 01 Sep 2021

All dates and times are in Eastern Time.

STCL-PROC-047 FRM1 CliniMACS TCR alpha beta+ T-Cell / CD19+ B-Cell Reduction Worksheet FRM1

Author

| Name/Signature | Title | Date | Meaning/Reason |
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| Barbara Waters-Pick (WATER002) | | 30 Aug 2021, 05:14:47 PM | Approved |

Management

| Name/Signature | Title | Date | Meaning/Reason |
|-----------------------------------|-------|--------------------------|----------------|
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| Name/Signature | Title | Date | Meaning/Reason |
|-----------------------------|-------|--------------------------|----------------|
| Joanne Kurtzberg (KURTZ001) | | 30 Aug 2021, 05:42:11 PM | Approved |

Quality

| Name/Signature | Title | Date | Meaning/Reason |
|---------------------------------|-------|--------------------------|----------------|
| Isabel Storch De Gracia (IMS19) | | 30 Aug 2021, 06:49:26 PM | Approved |

Document Release

| Name/Signature | Title | Date | Meaning/Reason |
|----------------------------|-------|--------------------------|----------------|
| Sandra Mulligan (MULLI026) | | 30 Aug 2021, 08:21:18 PM | Approved |