

Materials List for

Standardization of Transfer across Labs between Flow Cytometers for Detection of Lymphocytes in Japanese Encephalitis Vaccinated Children

Huizheng Ge^{⋆¹}, Linlin Zhang^{⋆2,3}, Mengjia Liu^{⋆2,3}, Xi Yang^¹, Xu Wu^¹, Ran Wang^{2,3}, Zhengde Xie^{2,3}

¹Center of Excellence (Beijing), Becton Dickinson Medical Devices (Shanghai) Co Ltd ²Beijing Key Laboratory of Pediatric Respiratory Infectious Diseases, Key Laboratory of Major Diseases in Children, Ministry of Education, National Clinical Research Center for Respiratory Diseases, Laboratory of Infection and Virology, Beijing Pediatric Research Institute, Beijing Children's Hospital, Capital Medical University, National Center for Children's Health ³Research Unit of Critical Infection in Children, 2019RU016, Chinese Academy of Medical Sciences

^{*}These authors contributed equally

| Corresponding Authors | | Citation | |
|--------------------------------------|--------------------------------------|---|----------------------|
| Ran Wang randall@mail.ccmu.edu.cn | Zhengde Xie xiezhengde@bch.com.cn | Ge, H., Zhang, L., Liu, M., Yang, X., Wu, X., Wang, R., Xie, Z. Standardization of Transfer across Labs between Flow Cytometers for Detection of Lymphocytes in Japanese Encephalitis Vaccinated Children. <i>J. Vis. Exp.</i> (192), e64949, doi:10.3791/64949 (2023). | |
| Date Published | | DOI | URL |
| February 10, 2023 | | 10.3791/64949 | jove.com/video/64949 |

Materials

| Name | Company | Catalog Number | Comments |
|--|---------|----------------|--|
| BD CompBeads Anti-Mouse Ig, к/ Negative Control Compensation Particles Set | BD | 552843 | compensation |
| BD FACSCanto | BD | FACSCanto | flow Cytometry A in the transferring lab |
| BD FACSDiva CS&T Research Beads | BD | 655051 | define flow cytometer baseline and track cytometer performance |
| BD Horizon BV421 Mouse Anti- Human CD127 | BD | 562436 | Fluorescent antibody |
| BD Horizon BV605 Mouse Anti- Human CD27 | BD | 562656 | Fluorescent antibody |
| BD Horizon V500 Mouse Anti-Human CD45 | BD | 560777 | Fluorescent antibody |
| BD LSRFortessa | BD | LSRFortessa | flow Cytometry B in the test method lab |
| BD OptiBuild BB700 Mouse Anti- Human CD19 | BD | 745907 | Fluorescent antibody |
| BD OptiBuild R718 Mouse Anti- Human CD8 | BD | 751953 | Fluorescent antibody |
| BD Pharmingen APC Mouse Anti- Human CD45RA | BD | 550855 | Fluorescent antibody |
| BD Pharmingen APC-H7 Mouse Anti- Human CD3 | BD | 560176 | Fluorescent antibody |
| BD Pharmingen FITC Mouse Anti- Human CD4 | BD | 566320 | Fluorescent antibody |
| BD Pharmingen PE Mouse Anti- Human CD25 | BD | 555432 | Fluorescent antibody |



| BD Pharmingen PE-Cy7 Mouse Anti- Human IgD | BD | 561314 | Fluorescent antibody |
|---|-----------|-------------|--|
| Brilliant Staining Buffer Plus | BD | 566385 | Staining Buffer |
| Centrifuge | Eppendorf | 5810 | Cell centrifugation |
| Centrifuge Tube | BD Falcon | BD-35209715 | 15 mL centrifuge tube |
| CS&T IVD Beads | BD | 662414 | standard beads to setup cytometer settings in different flow cytometer |
| Lysing Solution 10x Concentrate | BD | 349202 | lysing red blood cells |
| Phosphate-buffered Saline (PBS) | Gibco | 10010-023 | PBS |
| Round-bottom test tube | BD Falcon | 352235 | 5 mL test tube |