Sample Preparation Guideline

Analyzers (Calibur, CantoII, Fortessa, LSRII)
1) Tube: Falcon polystyrene (Fisher #: 352008)
2) Concentration: 3x10^6 cells/ml, minimum volume: 400ul

Influx
1) Tube: Polypropylene (NOT polystyrene tube used in Calibur/Canto/LSRII) (Fisher #: 352063)
2) Concentration: 20x10^6 cells/ml in 5ml tube with less than 4ml/tube, minimum volume: 500ul.
3) Serum: No more than 2%
4) Sticky cells (especially cells isolated from tissue or adherent cells): add 10 units (or 100mg) of DNase per ml of sample (Sigma #: D-4513), and/or with 1mM EDTA.
5) Sterile sort: 10X fungazone and antibiotics may be added in the collection tube
6) Clump removal: Cells MUST be filtered through the cell strainer RIGHT BEFORE the sort (Fisher #: 352235)
7) Collection tubes/plate: 1.5ml eppendorf, 5ml polypropylene tube, 15ml and 50ml tube with medium that best enhances the cell viability; 6, 12, 24, 48, 96-wells plate. Two ways sort: 5ml, 15ml, 50ml tube, 1.5ml eppendorf; Three way sort: two 5ml tube (or two eppendorf) and one 50ml; four way sort: 5ml tube or eppendorf.

Aria
1) Tube: Cell strainer polystyrene (Fisher #: 352235) or 15ml Falcon conical (Fisher #: 352096)
2) Concentration: 20x10^6 cells/ml, minimum volume: 500ul
3) Serum: No more than 2%
4) Sticky cells (especially cells isolated from tissue or adherent cells): add 10 units (or 100mg) of DNase per ml of sample (Sigma #: D-4513), and/or with 1mM EDTA.
5) Sterile sort: 10X fungazone and antibiotics may be added in the collection tube
6) Clump removal: Cells MUST be filtered through the cell strainer RIGHT BEFORE the sort (Fisher #: 352235)
7) Collection tubes/plate: 1.5ml eppendorf, 5ml polypropylene tube and 15ml tube with medium that best enhances the cell viability; 6, 12, 24, 48, 96-wells plate. Two ways sort: 5ml, 15ml, 1.5ml eppendorf (with cap removed); four way sort: 5ml tube or eppendorf (with cap removed).