





















Characterisation of Unit Operations: Intermediates			
	Analyte	Measurand	Purpose
Flow Cytometry			
Alternative	FL1 - CD45	% CD45+CD3+	Purity, T cells
Method (Measure →	FL2 - CD3	% CD45+CD3+CD25+	Purity, Activated T cells
	FL3 - CD25	% CD45-	Impurity, Non-leukocytes
receptor instead		% CD45+CD3-	Impurity, Non-T cell
of ligand)		% CD45+CD3+CD25-	Impuirty, Non-activated T cells
	FL1 - CD45	% CD45+CD3+	Purity, T cells
	FL2 - CD3	% CD45+CD3+IL-2+	Purity, Activated T cells
Orthogonal	FL3 - IL-2*	% CD45+CD3+IL-2-	Impuirty, Non-activated T cells
Orthogonal	*intracellular stain	ing	
(different	CDx etc.	Various combinations	Other phenotypes of interest
measurement	ELISA		
principic)	IL-2	[IL-2] /mL	Activation marker
	Other Cytokine/s	[cytokine] /mL	Activation or other marker
	qPCR		
*	IL-2 mRNA	Copies IL-2 mRNA /10^5 cells	Activation marker
12 CAB	Others	Copies mRNA /10^5 cells	Other gene markers of activation



























