IL-10 Validations

- Validation includes:
- % detectability data for Supplier B's Human CVD3 and Cytokine multiplex panels
- Reproducibility data for human Cytokine multiplex panel

Suppliers

- A: Bio-Rad
- B: Linco (done)
- C: Upstate
- D: Biosource
- E: RnD Systems

IL-10 - % Detectability

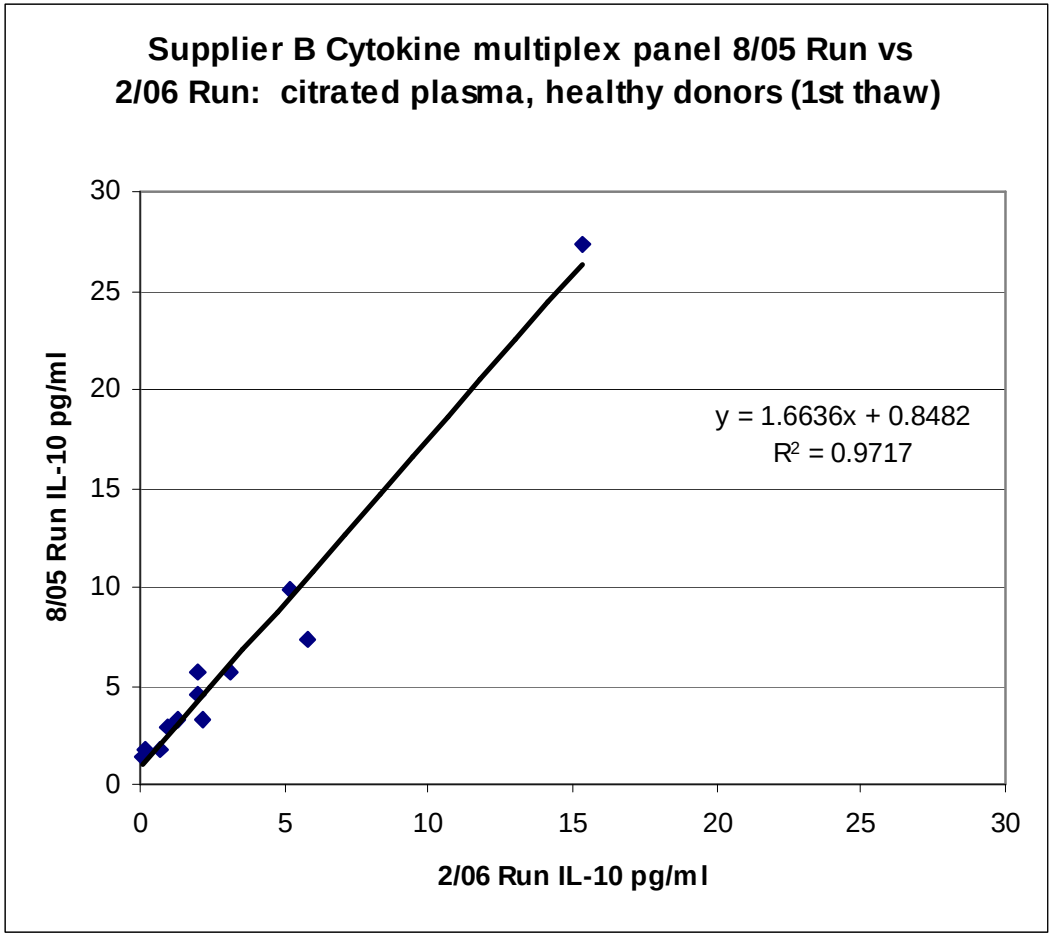
- Using supplier B's Cytokine multiplex panel as a 21-plex, % detectability of IL-10 in serum and plasma from healthy donors:
- Citrated plasma (n=16): 87.5%
- Serum (n=20): 85%
- (Note that for each sample type a different set of donors were used.)

IL-10 - % Detectability

- Using supplier B's Human CVD3 panel, % detectability of IL-10 in serum and plasma from healthy donors:
- EDTA plasma (n=10) 80%
- Citrated plasma (n=10) 80%
- Serum (n=10) 80%
- (Note that for each sample type a different set of donors were used.)

Supplier B

Human Cytokine multiplex panel



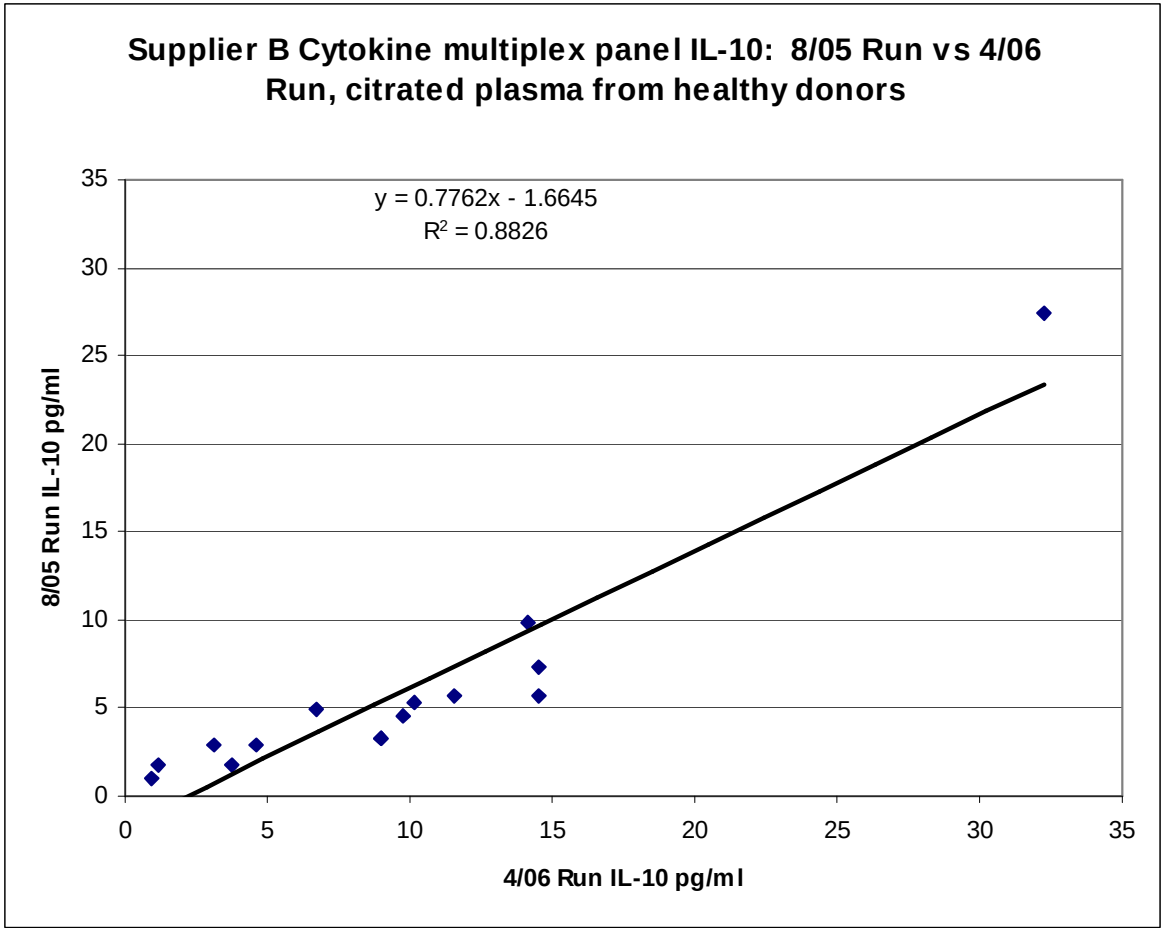
Reproducibility

IL-10 levels for citrated plasma samples from healthy donors assayed with Supplier B's Cytokine multiplex panel, assayed 8/05 as a 21-plex, agreed well with levels for the same sample set, assayed 2/06 as a 7-plex.

R^2 = 0.972

Supplier B

Human Cytokine multiplex panel



Reproducibility

IL-10 levels for citrated plasma samples from healthy donors assayed with Supplier B's Cytokine multiplex panel, assayed 8/05 as a 21-plex, agreed moderately well with levels for the same sample set, assayed 4/06 as a 3-plex. Reproducibility is likely affected by levels that approach the lower limit of detectability.

$R^2 = 0.883$

IL-10 summary

- The assays are detecting levels of IL-10 in healthy populations, that approach the lower limit of detectability.
- Freeze-thaw effects may exist but have not been investigated formally.
- Very high values should probably be considered spurious in healthy subjects.