

# Resistin Validations

- Validation includes comparison of multiplex assay to our gold standard Alpco Resistin ELISA
- Assays are not always “harmonized” with respect to standardization. Slope(m) values reflect degree of harmonization.
- Reproducibility between technicians.
- Intra- and inter-assay QC data

# Suppliers

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

# Supplier B

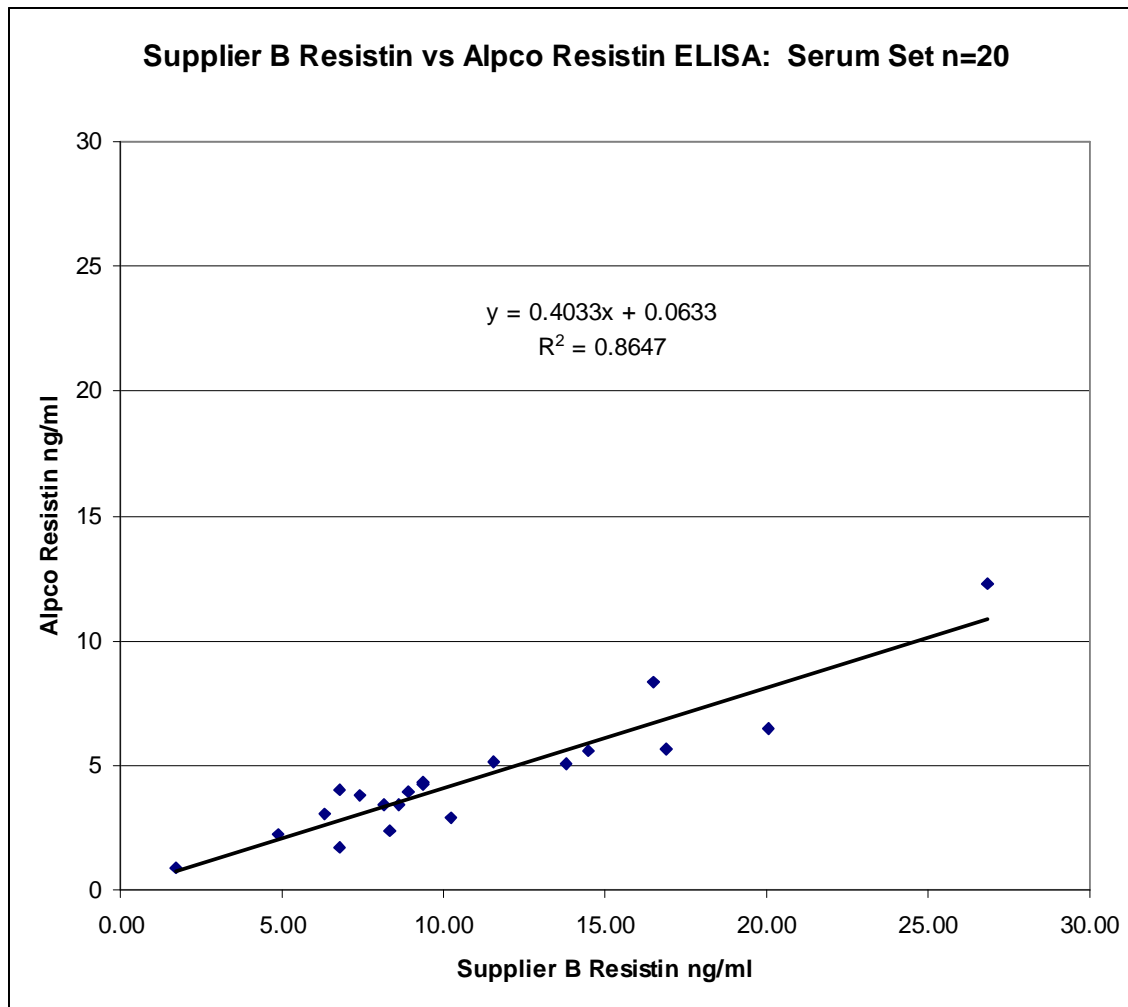
## Adipokine Panel A

Resistin

Mean Replicate CV=22.18%

$R^2 = 0.86$

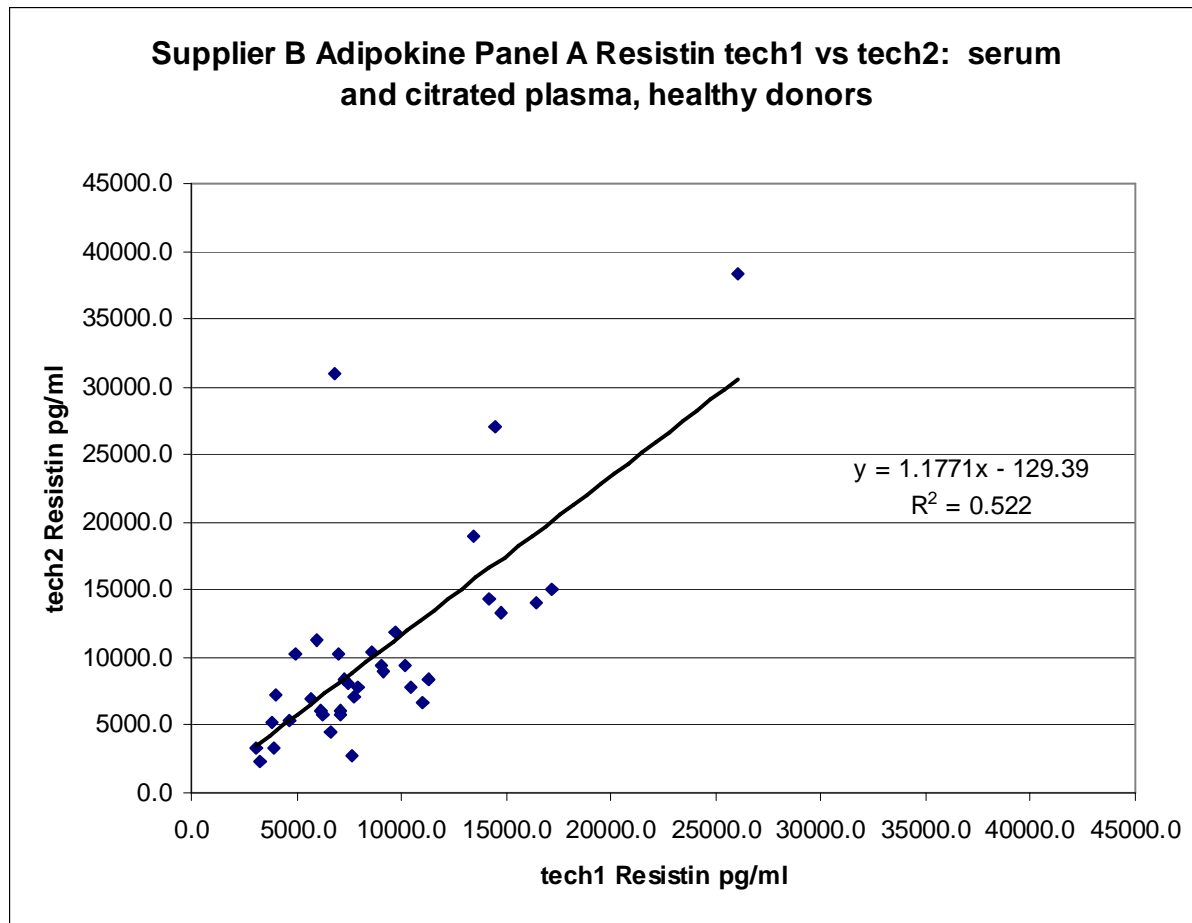
Slope(m)=0.4



# Supplier B

## Adipokine Panel A Resistin

### Reproducibility



**For 20 serum and 16 citrated plasma samples from healthy donors assayed by different technicians, using Supplier B's Adipokine Panel A multiplex Resistin assay, agreement between levels was poor to fair.**

**$R^2 = 0.52$**

# Supplier B

Resistin (pg/ml)

PLRC5	8086.78
PLRC5	6676.56
PLRC5	6941.52
PLRC5	7787.55
PLRC5	6926.35
PLRC5	6480.32
PLRC5	7626.85
PLRC5	9215.34
PLRC5	7123.71
PLRC5	7542.78
PLRC5	8425.52
PLRC5	7184.54
PLRC5	8440.95
PLRC5	7009.79
<b>mean</b>	7533.469
<b>SD</b>	782.1956
<b>CV %</b>	10.38

Intra-assay CV data

Adipokine Panel A Resistin

For assay run 3/30/06

# Supplier B

## Inter-assay CV data

### Adipokine Panel A Resistin

For n=30 plates run on 8 different days (2/06 and 3/06):  
(pg/ml)

	<b>Kit QC1</b>	<b>Kit QC2</b>	<b>PLRC5</b>	<b>BN527675</b>
<b>Mean</b>	<b>76.97</b>	<b>854.64</b>	<b>8803.96</b>	<b>8720.04</b>
<b>SD</b>	<b>18.61</b>	<b>117.51</b>	<b>1736.78</b>	<b>1783.73</b>
<b>CV%</b>	<b>24.18</b>	<b>13.75</b>	<b>19.73</b>	<b>20.46</b>