

Moss, Inc.



Ultra-Sensitive

**SAPE
Conjugates**

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Moss Ultra-Sensitive SAPE Conjugates

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Part I: IL-6 Assay – Conjugate Survey

- IL-6 reagents sourced from Peprotech
- IL-6 Assay from Peprotech reagents with standards from 2000 to 2.7 pg/ml
- Washed assay
- 1 hour capture, 1 hour detection
- 30 min SAPE incubation
- Read on Luminex 100 with High PMT setting
- Two Thermo Conjugates and Ten Moss Conjugates were compared
- All Conjugates were tested at 2 ug/ml



Day 1 –Conjugate Survey

Thermo Conjugates Tested

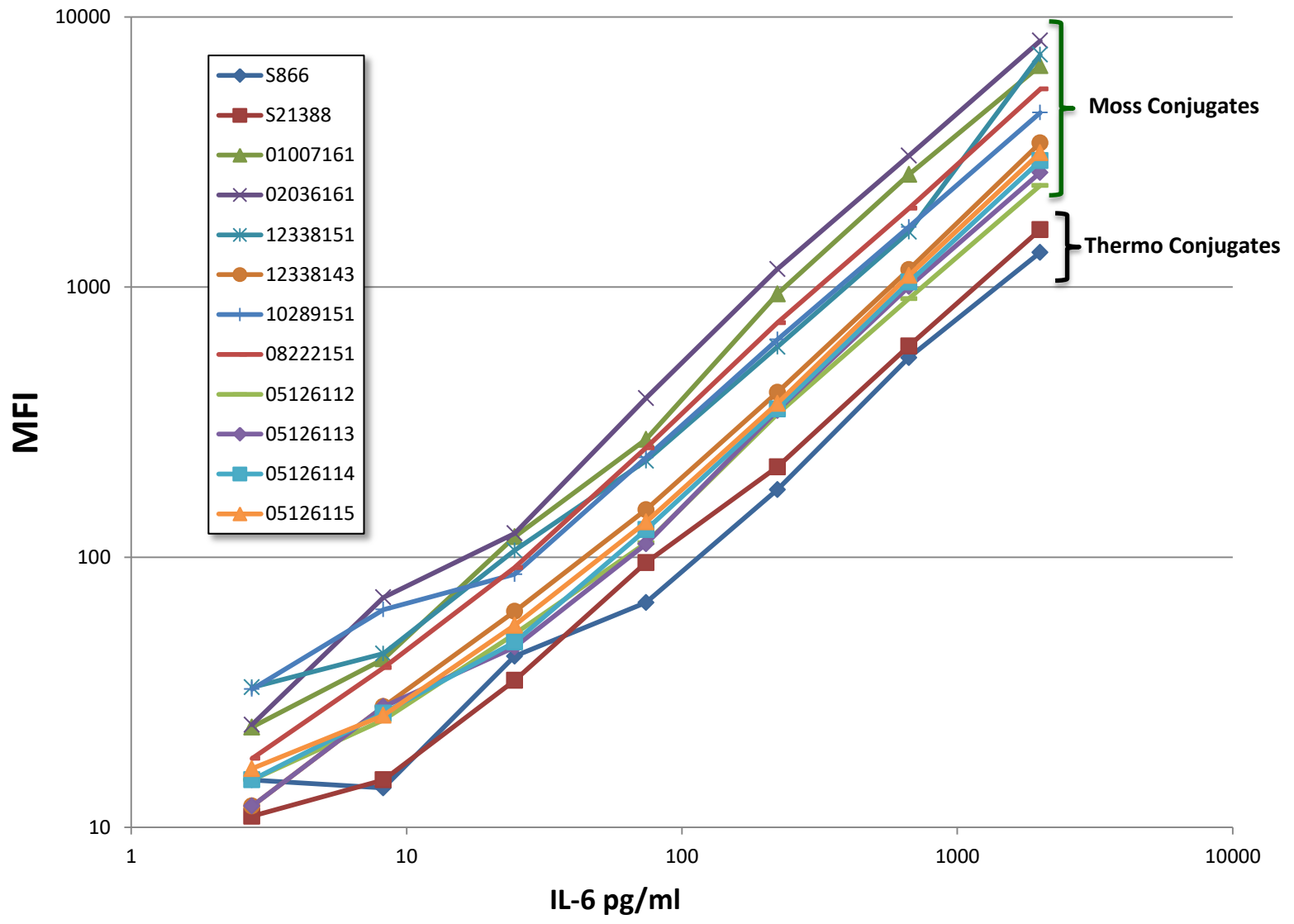
- S866 (Standard grade SAPE)
- S21388 (Premium grade SAPE)

Moss Conjugates Tested (Each variant can be reproducibly made)

Lot #	Description	Population
02036161	Moss 34 P	34 P
01007161	Moss 27 P	27 P
08222151	Moss 16 P	16 P
12338151	Moss 4 P	4 P
10289151	Moss 9.2 M	9.2 M
05126115	Moss 10.00 M	10.00 M
05126113	Moss 10.06 M	10.06 M
05126112	Moss 10.08 M	10.08 M
05126114	Moss 10.11 M	10.11 M
12338143	Moss 10.3 M	10.3 M



2 ug/ml SAPE – Comparison of All Conjugates





Part II – SAPE Titration with full IL-6 Assay

- IL-6 Assay from Peprotech reagents with standards from 2000 to 2.7 pg/ml
- Thermo Conjugates S866 and Three Moss Conjugates were compared
- All Conjugates were tested at 2, 4 and 8 ug/ml.

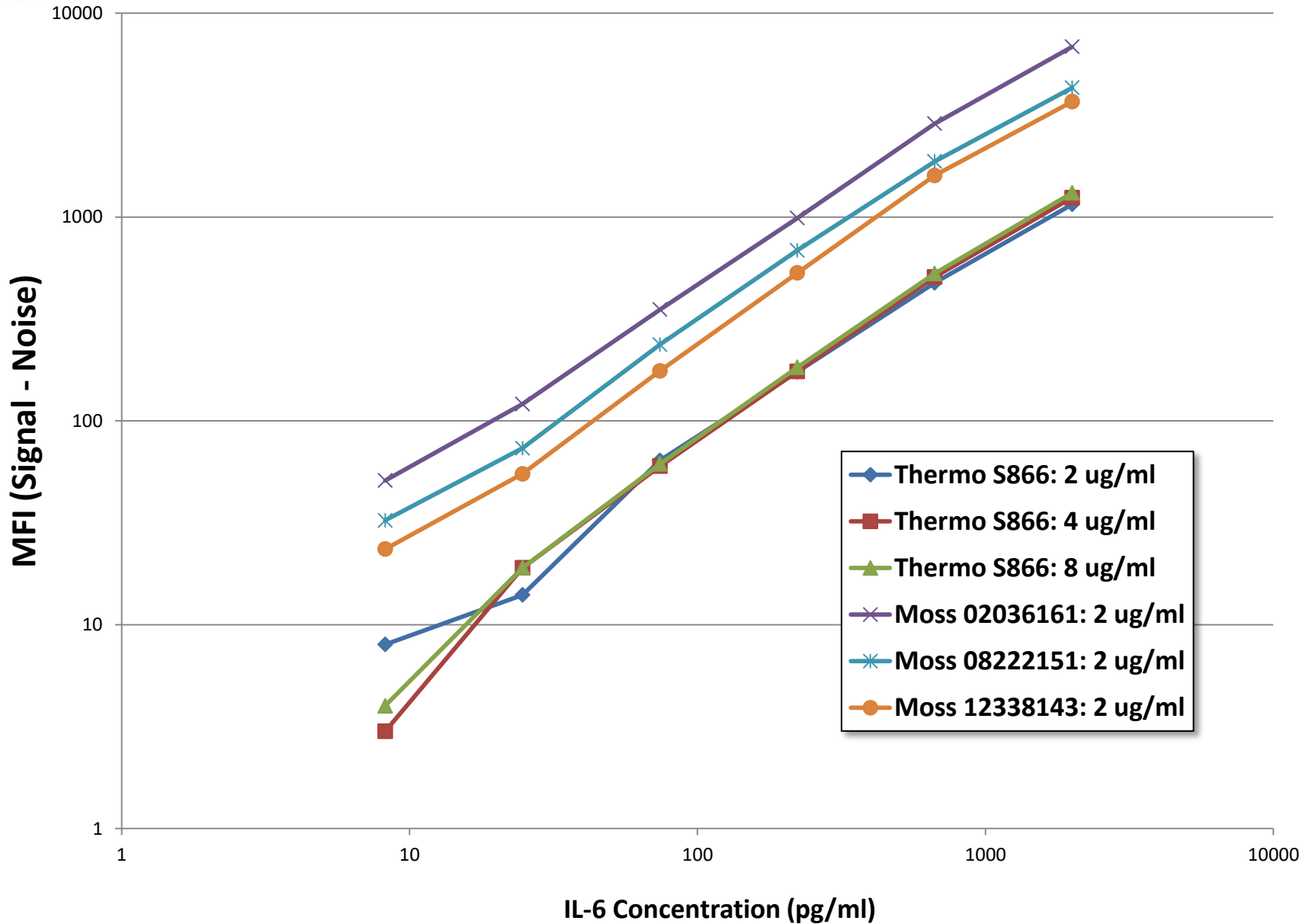


Conjugates Tested

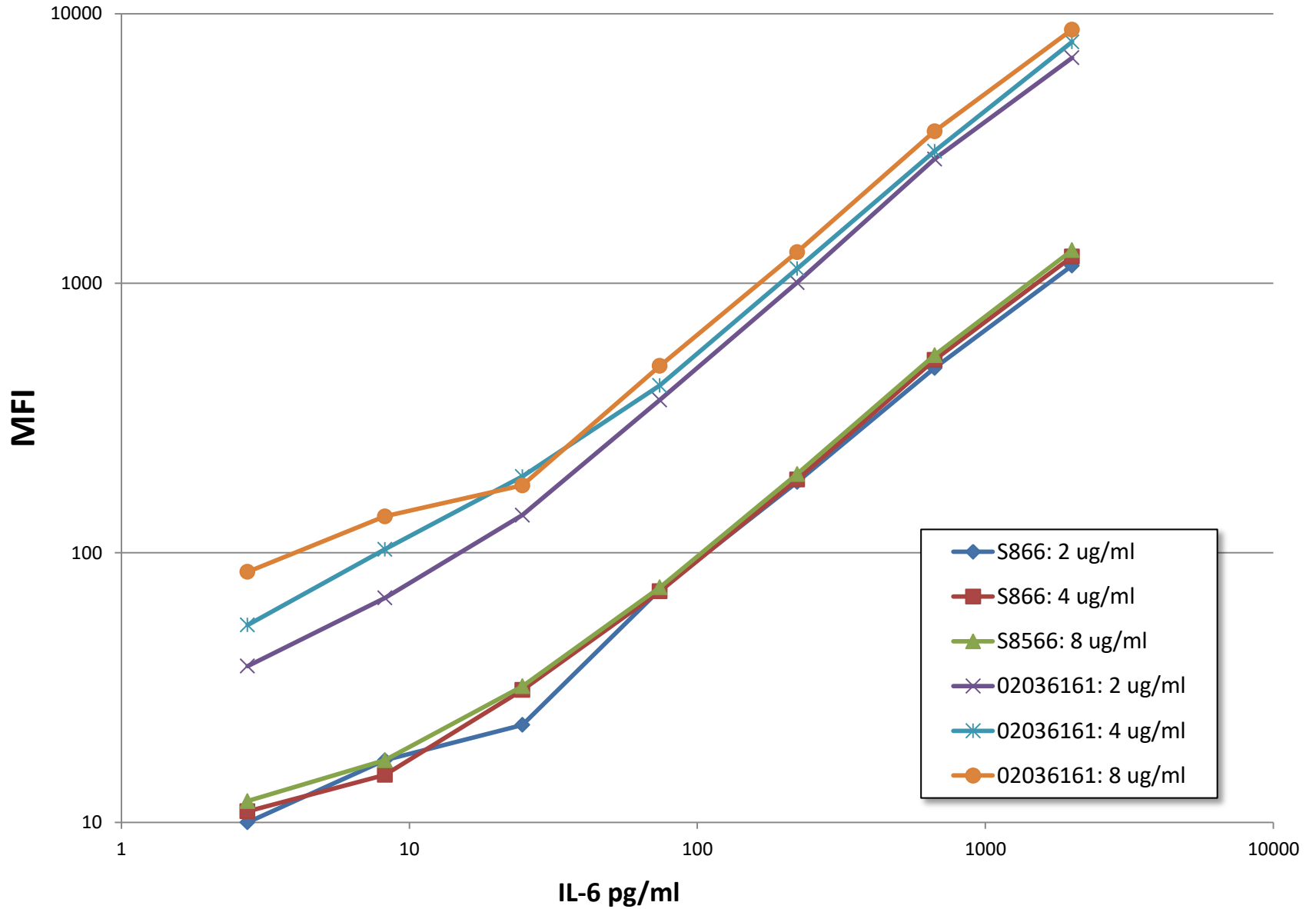
- Thermo
 - S866 (Standard grade SAPE) (11.3 M)
- Moss
 - SAPE-001, Lot # 02036161 (34P)
 - SAPE-001, Lot # 08222151 (16P)
 - SAPE-003, Lot # 12338143 (10.3 M)



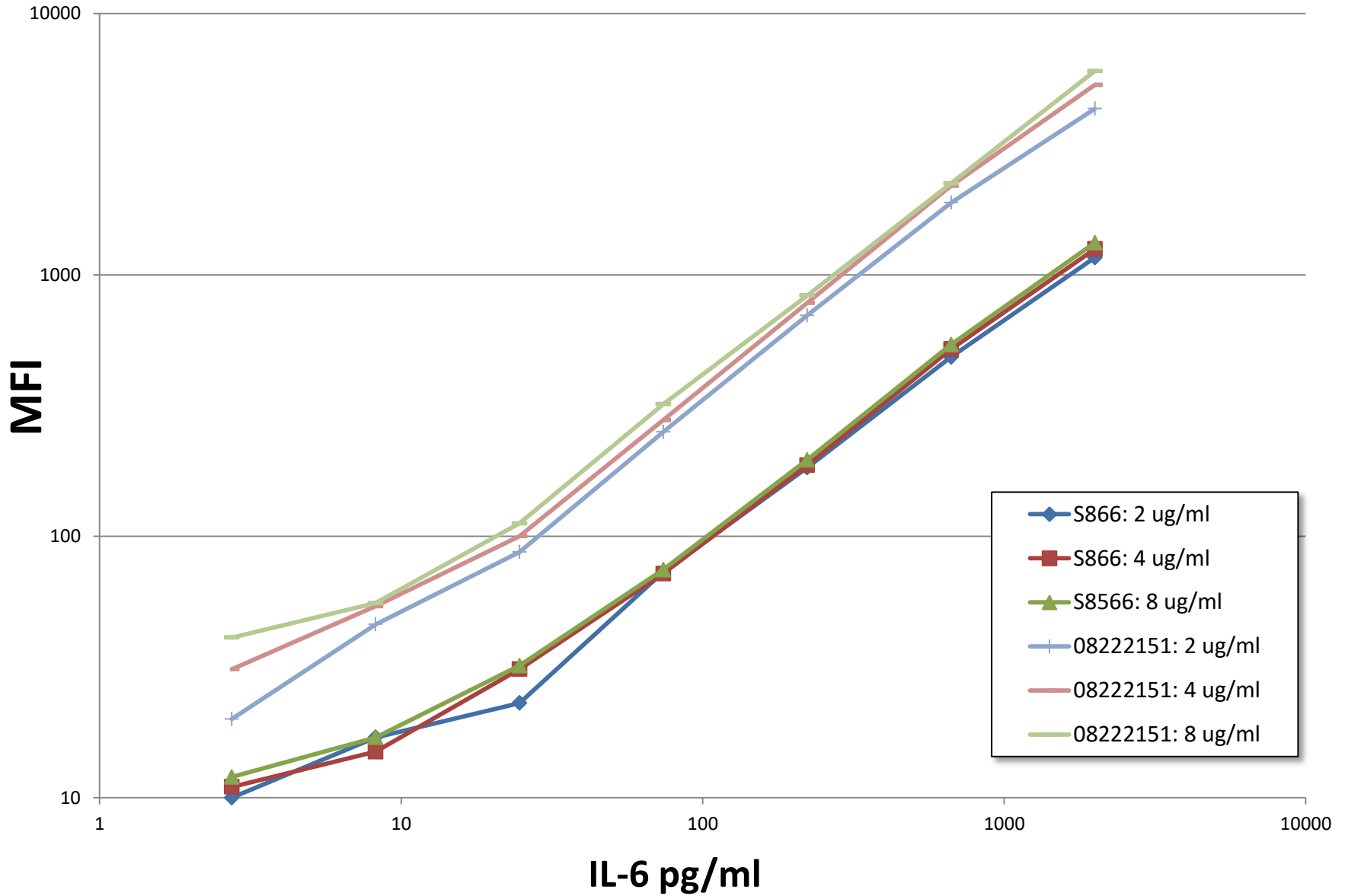
SAPE Comparision: Moss IL-6 Assay



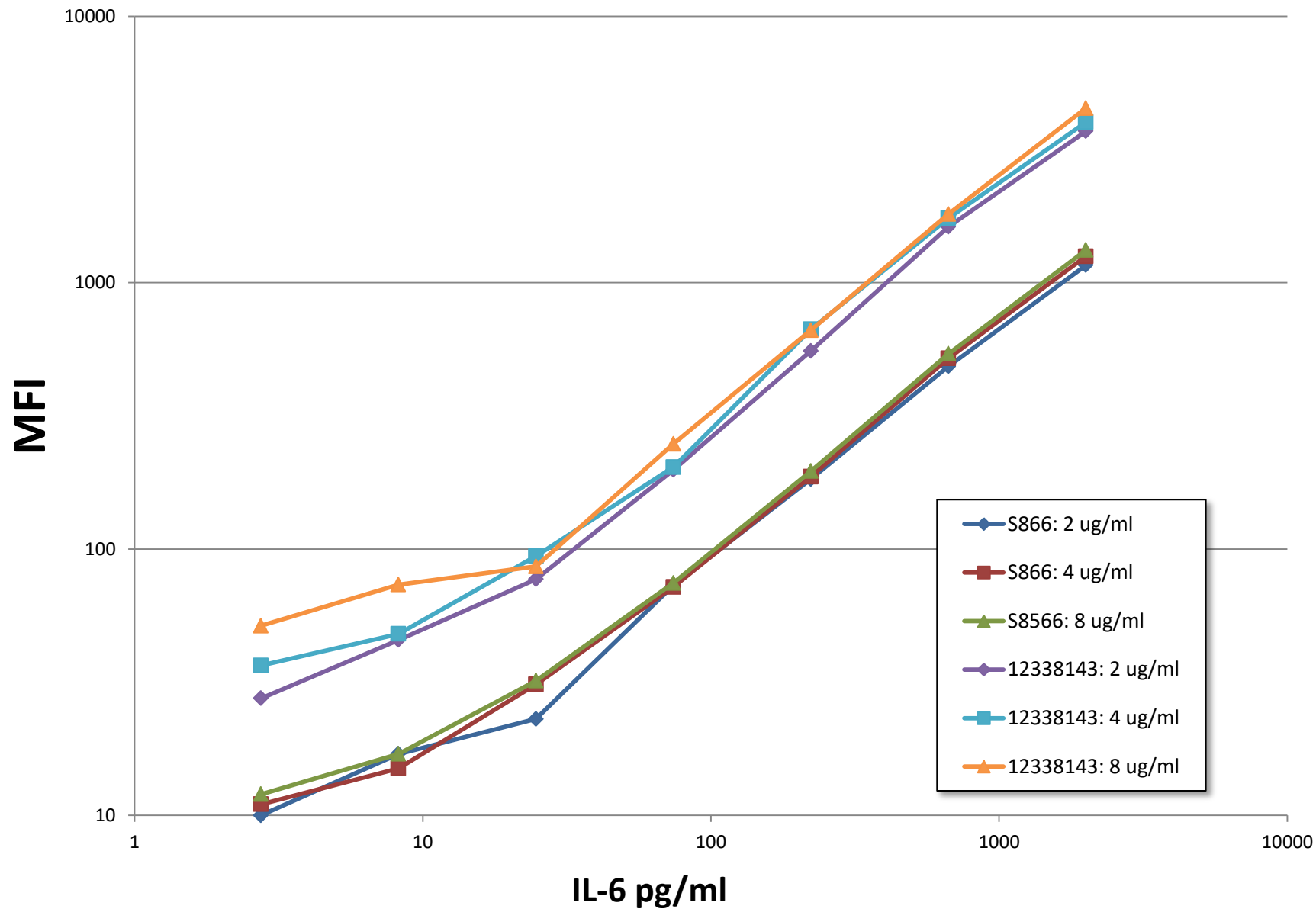
SAPE Comparison: S866 vs 02036161



SAPE Comparison: S866 vs 08222151

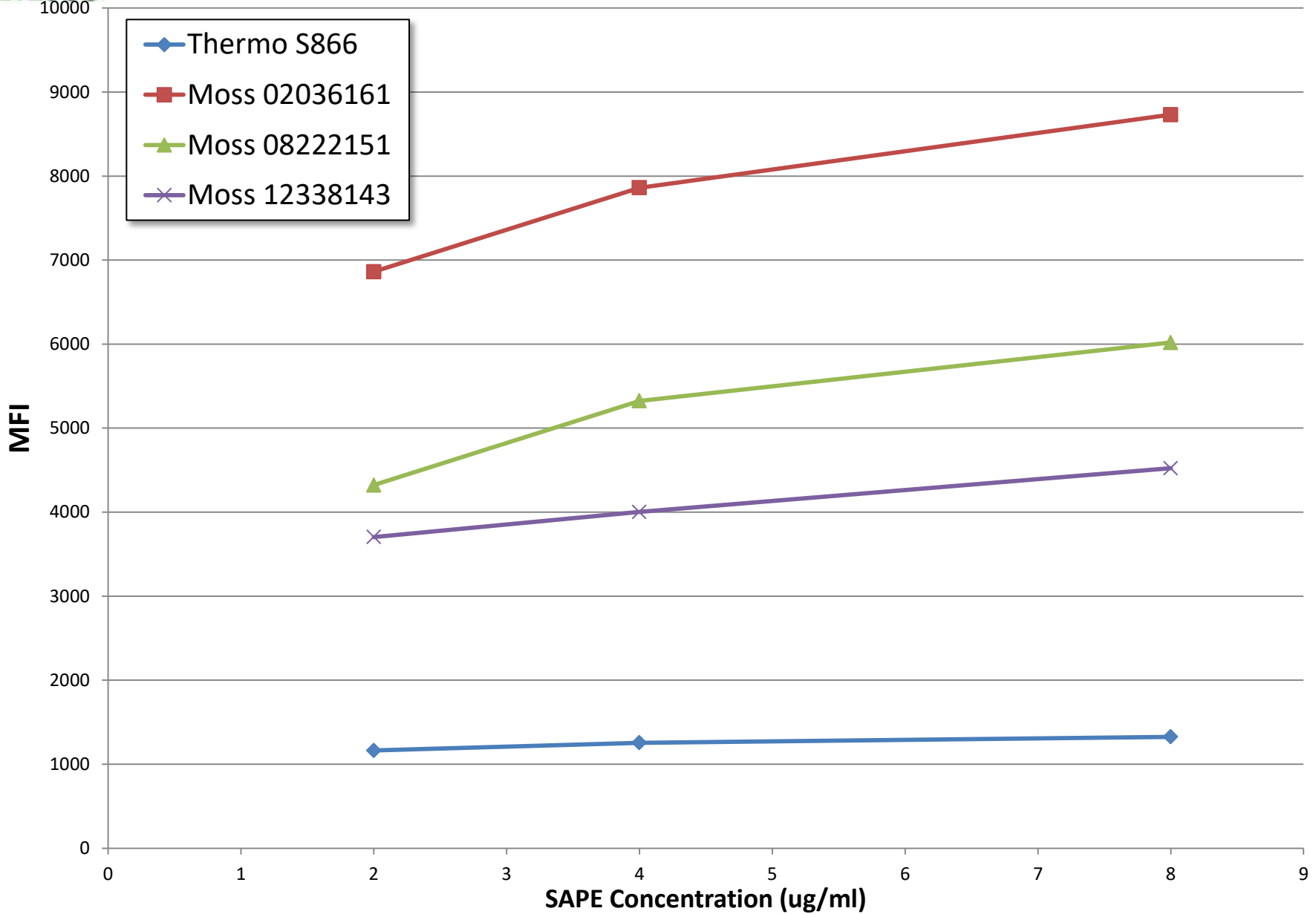


SAPE Comparison: S866 vs 12338143



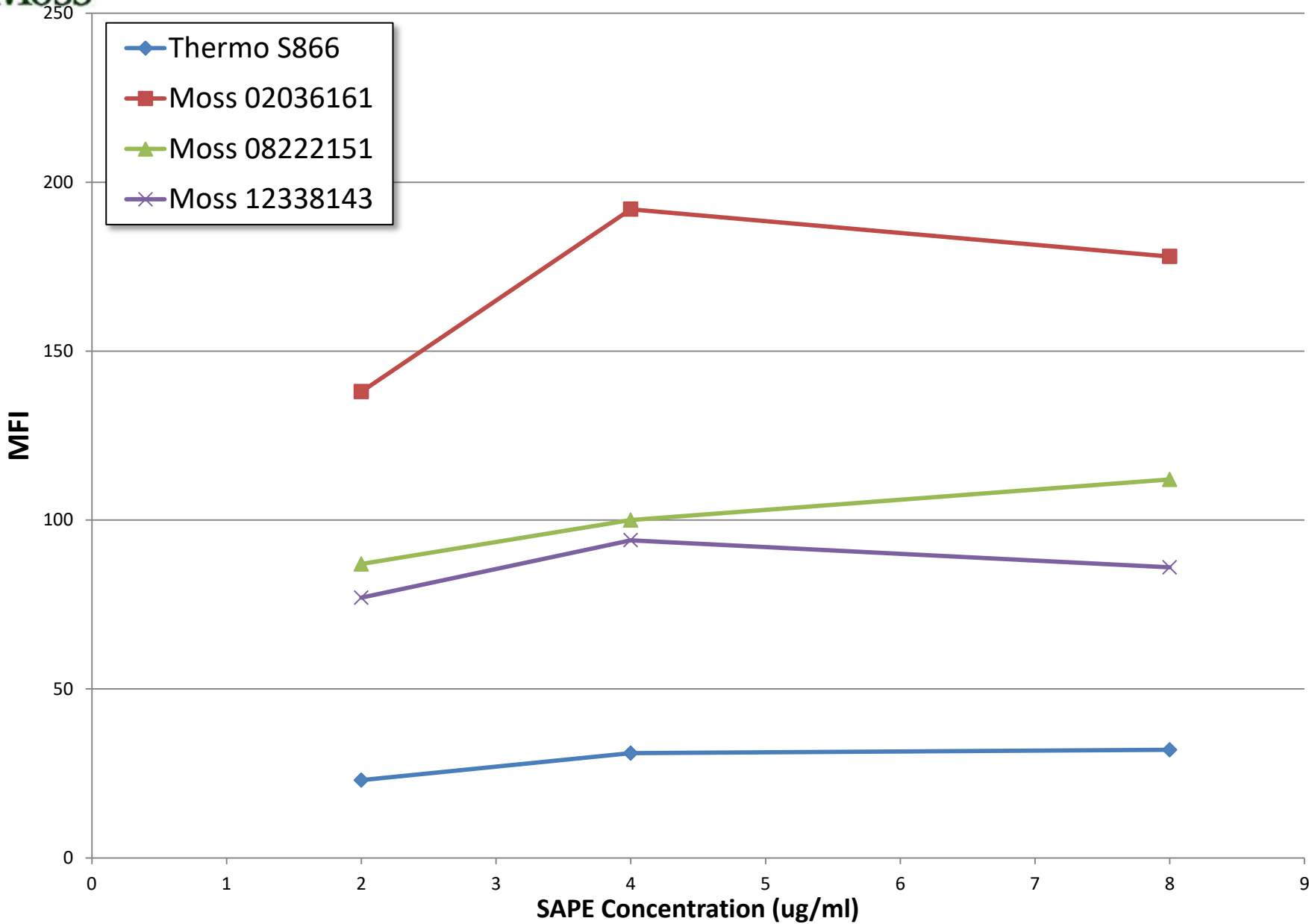


Moss IL-6 Assay: 2000 pg/ml – SAPE Dose Response





Moss IL-6 Assay: 25 pg/ml – SAPE Dose Response

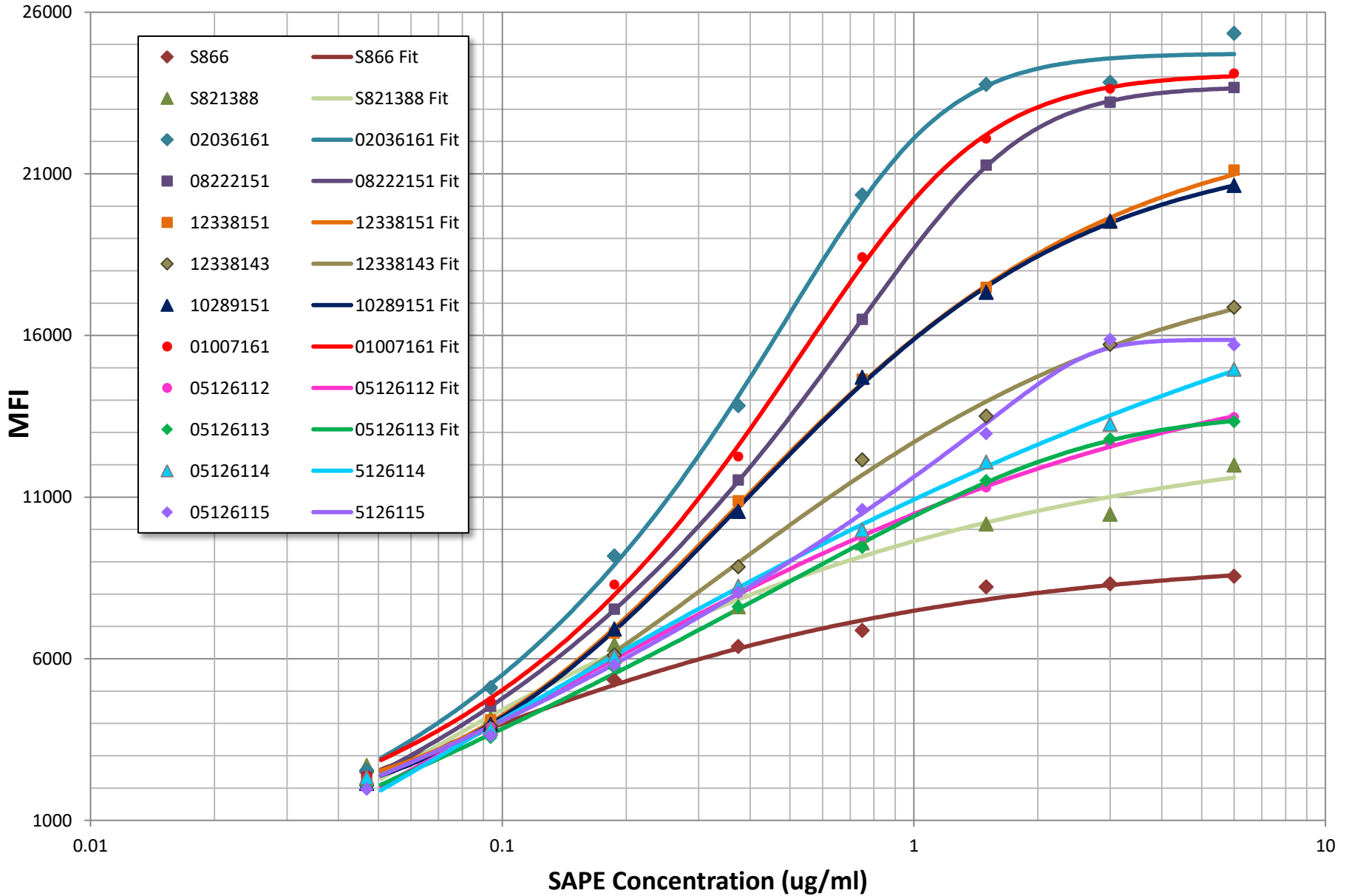




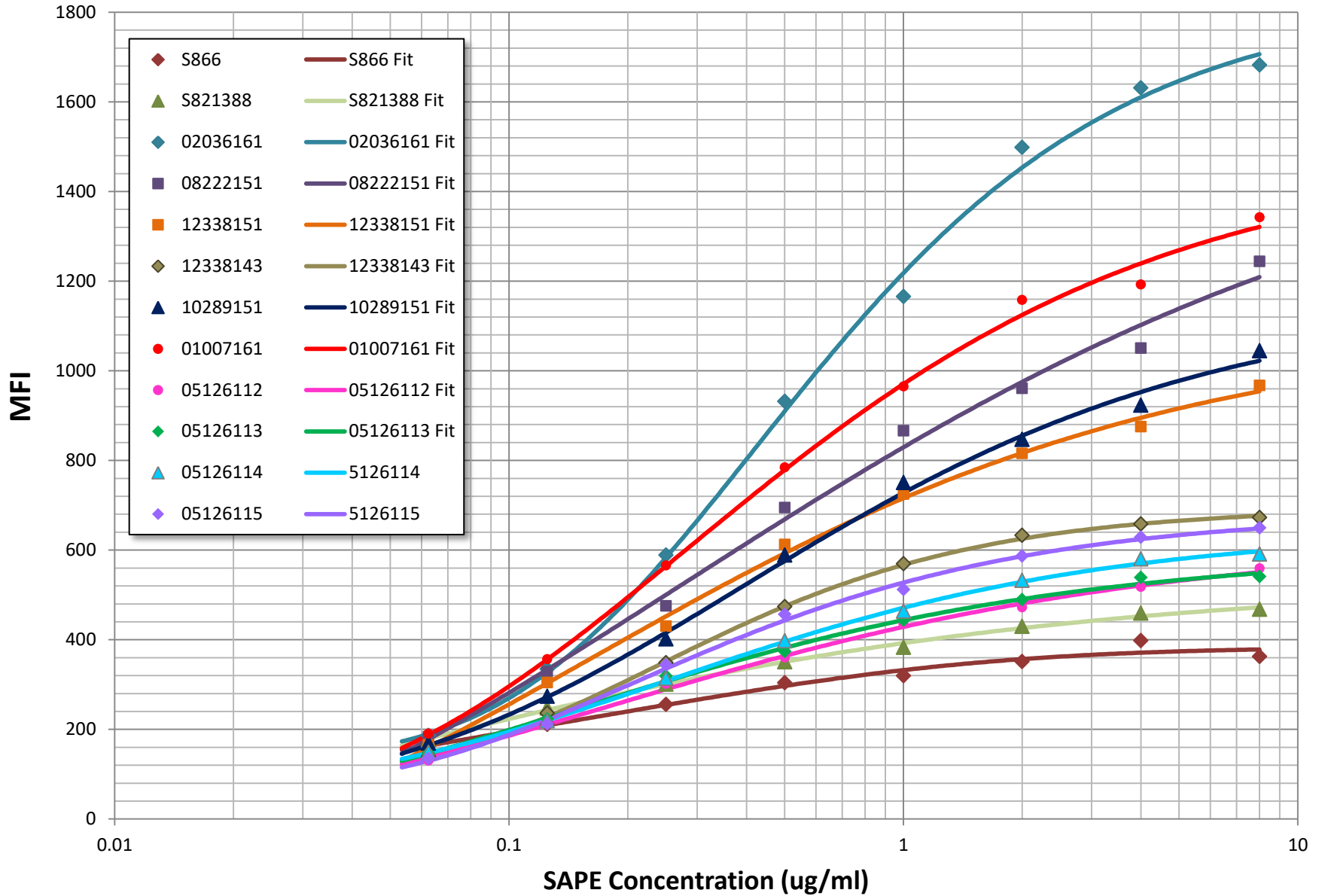
Part III: SAPE Titration with IL-6 Standard 2

- IL-6 Assay from Peprotech reagents with standards from 2000 to 2.7 pg/ml
- Two Thermo Conjugates and Ten Moss Conjugates were compared
- Highest SAPE level was 6 ug/ml, serially diluted 3-fold.

SAPE Titration with IL-6 Assay: 667 pg/ml IL-6



SAPE Titration with IL-6 Assay: 24 pg/ml IL-6





Conclusions

- In an IL-6 ELISA bead assay, the Moss Conjugates give 2-8 fold higher signals than either of the Thermo conjugates across a wide dynamic range.
- The premium Thermo conjugate gives slightly higher signal in an IL-6 assay than the standard Thermo conjugate, S866.
- At the normal concentrations used in assays (4 – 8 ug/ml), the signal is not sensitive to the conjugate concentration (the assay is saturated with SAPE).
- However, at lower concentrations the dose-response curve is relatively steep.
- Moss Conjugates give substantially higher signal than other commercially available conjugates.
- Moss Conjugates can be reproducibly prepared to generate specified levels of signal.



Contact Information

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