

SUPPORTING INFORMATION

Total Antibody Quantification for MMAE-Conjugated Antibody-Drug Conjugates: Impact of Assay Format and Reagents

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SUPPORTING TABLES

ADC	Avg. DAR of unfractionated ADC	% DAR				
		DAR 0	DAR 2	DAR 4	DAR 6	DAR 8
Anti-B	3.7	4.0	28.7	49.9	13.8	3.6
Anti-C	3.9	4.6	22.2	47.6	20.6	5.0
Anti-F	3.6	6.6	32.8	36.4	20.6	3.6
Anti-M	3.6	4.9	31.7	42.7	20.7	0.0
Anti-N	3.6	8.8	32.1	36.5	17.7	4.9
Anti-S	3.6	5.1	28.5	48.9	14.1	3.4

Table S1. Percent of DAR species present in each ADC.

ADC	% Aggregation				
	DAR 0	DAR 2	DAR 4	DAR 6	DAR 8
Anti-B	0	0	1.4	4.8	—
Anti-C	0	0.1	0.1	0.8	5.6
Anti-F	0	1.6	2.5	38	70
Anti-M	0	1.1	2.2	3.1	2.1
Anti-N	0	0	2.8	4.9	8.0
Anti-S	<10	<10	<10	<10	<10

Table S2. Amount of aggregates present in the DAR fractions of each ADC.

PK parameters	Dose (mg/mL)	Specific SHA Total Antibody Assay
CL (mL/kg/day)	0.5	8.94 ± 0.317
	5.0	9.13 ± 0.299
T1/2 (days)	0.5	12.6 ± 0.945
	5.0	11.5 ± 0.745
V1 (mL/kg)	0.5	54.7 ± 2.15
	5.0	54.5 ± 2.64
AUC (day x ug/mL)	0.5	55.9 ± 1.98
	5.0	548 ± 17.9
Cmax	0.5	9.14 ± 0.420
	5.0	91.8 ± 4.45

Table S3. Pharmacokinetic parameters based on the total antibody concentrations as measured using the specific SHA format. Error represented by standard deviations (n = 3).

SUPPORTING FIGURES

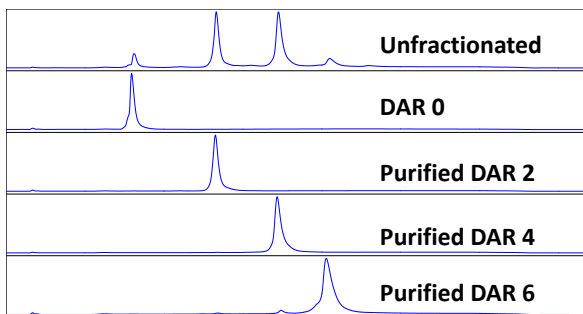


Figure S1. A representative spectral HIC profile confirming identity and > 90% purity of isolated anti-B DAR 0, 2, 4, and 6 fractions.

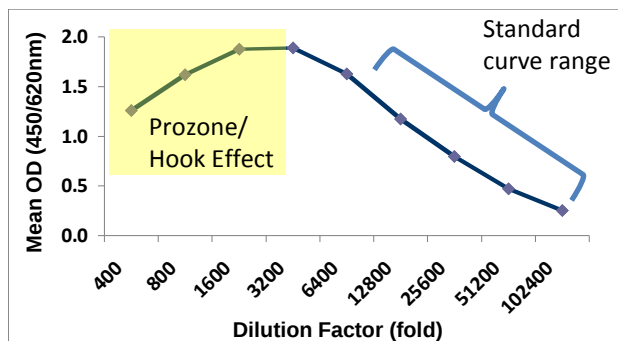


Figure S2. A representative prozone/hook effect as observed for anti-N in the generic SHA format.