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Product Description: SULFO-TAG[™] Goat-Anti Human IgG Catalog #/ Size: S01AC-1 Lot Number: W0017254 Storage Condition: 2-8 °C Date of Manufacture: 27 JUN 2017 Expiration Date: 30 JUN 2019 Statement: This product was manufactured and tested according to approved MSD documents.

Summary of Conjugation:

Raw M	faterial Lot #	Final Conc. (µg/mL)	L/P	% Yield	Final Buffer	Final Volume (µL)
J28	315-MK47	1000	4.1	102.9	PBS + 0.05% Azide	10290

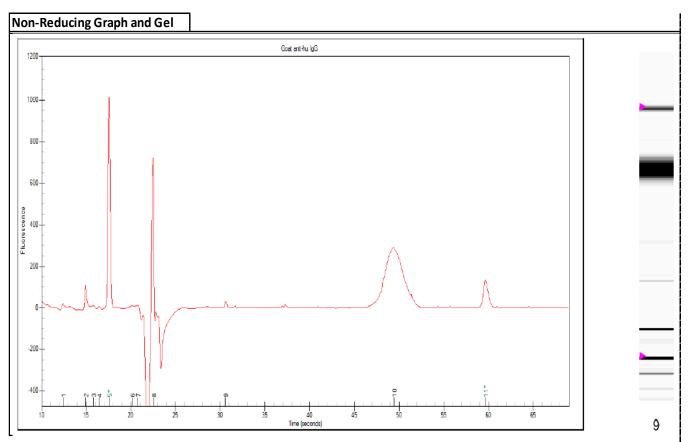
Summary of Characterization of Material:

Characteriz	zation Method	Metric	Measured	
Capillary	Non-reducing	Ab % Total Mass	<u>98%</u>	
Electrophoresis	Reducing	% Total Mass H + L	<u>89%</u>	
		Ab % Pd	<u>15%</u>	
Dynamia L	aht Coattanin a	Ab % Intensity	<u>84%</u>	
	ght Scattering	Ab % Mass	<u>99%</u>	
		Radius of Ab peak	4.5%	
Capillary Isoeled	Capillary Isoelectric Focusing (pre- conjugation)		7.0%	
conju			<u>6.3-7.5</u>	
Capillary Isoelec	tric Focusing (post-	pI of main peak	<u>5.8</u>	
conju	igation)	pI range	<u>5.1-7.2</u>	



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Non-Reducing Capillary Electrophoresis (Pre-conjugation):



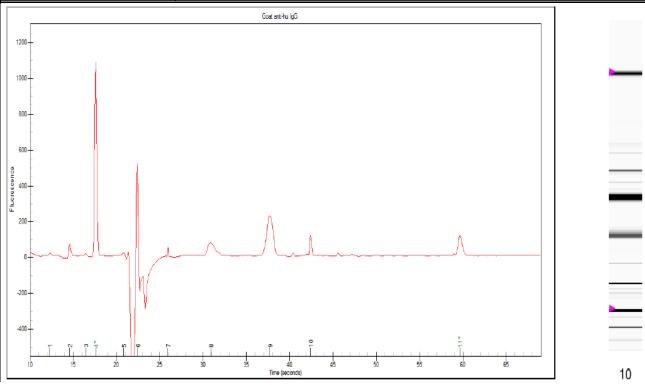
	Goat anti-hu IgG - W0017254 preSTAG_NR									
Peak Number	Mig. Time (secs)	Mol. Wt. (kDa)	Corrected Area	Area Ratio (to Upper Marker)	Concentration (ng/µl)	Calib. Conc. (ng/µl)	% Total	Observation	Peak Used for Result?	
1	12.41		71.3						No	
2	14.91		278.91						No	
3	15.79		52.78						No	
4	16.44		22.1						No	
5	17.6	1.2	1840.93					Lower Marker	No	
6	20.15	4.27	25.3					System Peak	No	
7	20.75	5	21.37					System Peak	No	
8	22.51	7.12	758.18					System Peak	No	
9	30.58	28.63	24.08	0.1642	12.32		1.64		No	
10	49.4	151.11	1441.75	9.8322	737.42		98.36		Yes	
11	59.65	260	146.64	1	75			Upper Marker	No	



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Reducing Capillary Electrophoresis (Pre-conjugation):

Reducing Graph and Gei



	Goat anti-hu IgG - W0017254 preSTAG_R									
Peak Number	Mig. Time (secs)	Mol. Wt. (kDa)	Corrected Area	Area Ratio (to Upper Marker)	Concentration (ng/µl)	Calib. Conc. (ng/µl)	% Total	Observation	Peak Used for Result?	
1	12.26		56.78						No	
2	14.58	0	122.39	0	0	0	0	0	No	
3	16.44		19.98						No	
4	17.6	1.2	1898.06	0	0	0	0	Lower Marker	No	
5	20.81	5.06	32.91					System Peak	No	
6	22.43	7.03	511.98	0	0	0	0	System Peak	No	
7	25.92	12.91	28.32	0.2639	19.8		3.33		No	
8	30.89	29.97	246.25	2.295	172.12	0	28.93	0	Light Chain	
9	37.72	64.19	513.08	4.7816	358.62		60.27		Heavy Chain	
10	42.41	95.38	63.66	0.5933	44.5	0	7.48	0	No	
11	59.65	260	107.3	1	75			Upper Marker	No	

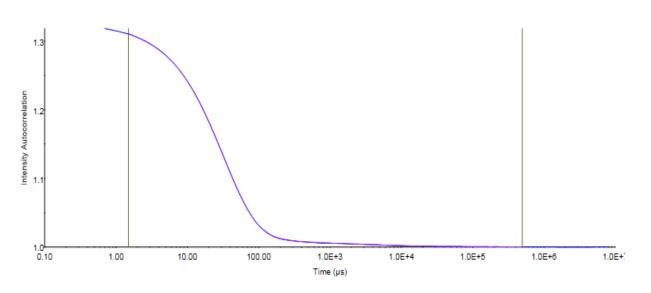
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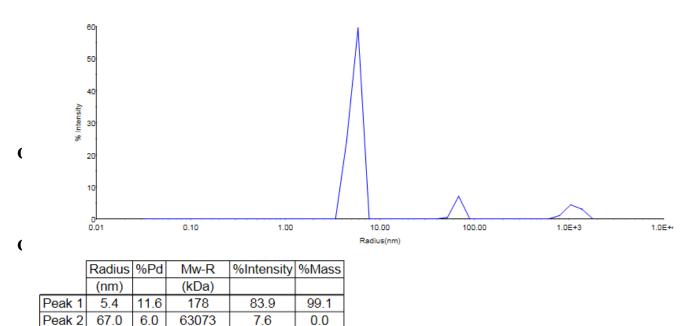
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Dynamic Light Scattering (Pre-conjugation):

Correlation Function: Goat Anti-Human IgG-W0017254 preSTAG



Regularization Results: Goat Anti-Human IgG-W0017254 preSTAG -



8.5

0.9

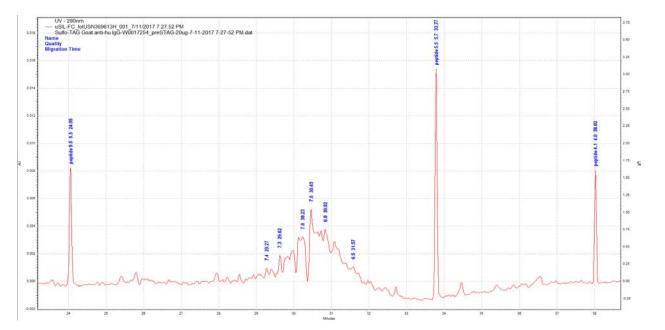
Peak 3 1127.2 17.2 46585400



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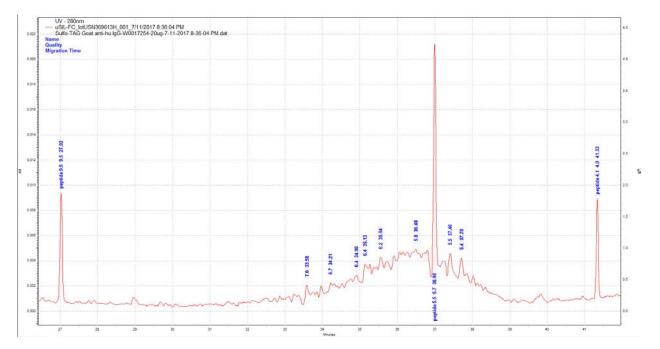
Som	Goat Anti-Human IgG-W0017254 preSTAG						
San	nple Summary		Repeat 1	Repeat 2	Repeat 3	Average	%CV
Cumulan	9.6	6.1	216.80	77.50	155.68		
Cumulant Fit %Pd			Multimodal	23.7	Multimodal	23.70	
	Peak (1.5-	Radius (nm)			4	4.00	
	3.9nm)	%Pd			24.2	24.20	
		% Intensity			100	100.00	
		% Mass			100	100.00	
	Peak (4.0-	Radius (nm)	4.2	5.4		4.80	17.68
Regularization Fit	20.0nm)	%Pd	10.6	11.6		11.10	6.37
Regularization Fit		% Intensity	68.4	83.9		76.15	14.39
		% Mass	99.2	99.1		99.15	0.07
	Peak (20.1-	Radius (nm)	30.3	67		48.65	53.34
	5000.0nm)	%Pd	5.4	6		5.70	7.44
		% Intensity	2	7.6		4.80	82.50
%		% Mass	0	0		0.00	
Peak (1.5-3.9nm) radius/Cumulant radius ratio					98.15	94.84	
Peak (4.0-20.0nm) rad	56.25	11.48		93.81			
Peak (20.1-5000.0nm)	-215.63	-998.36		37.23			

Capillary Isoelectric Focusing (Pre-conjugation):



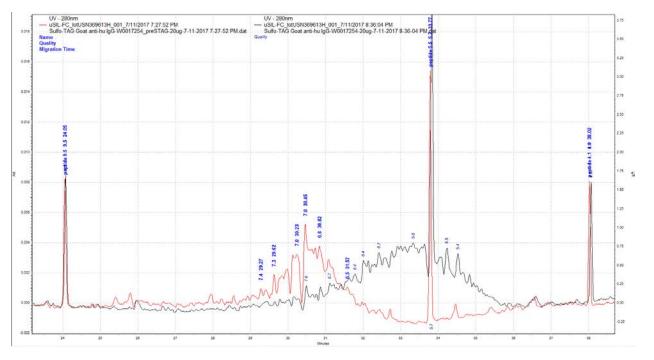


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Capillary Isoelectric Focusing (Post-conjugation):

Capillary Isoelectric Focusing (Pre-conjugation (red) and Post-conjugation (blue) Overlay):



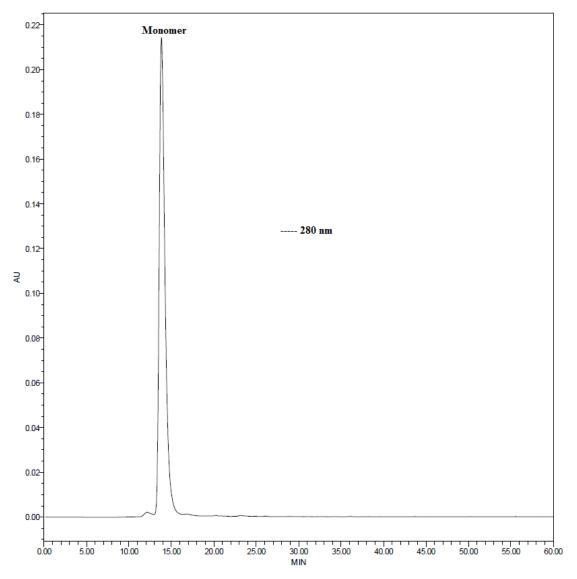
COA-8506-A



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Analytical Size Exclusion Chromatography:

Pre-conjugation material:

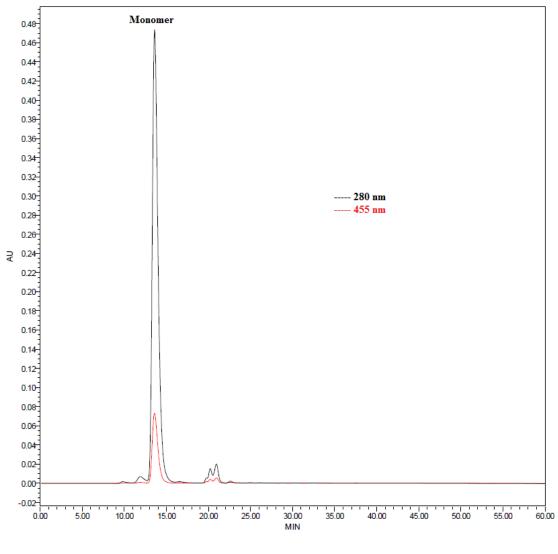


% Monomer = 99.34





Post-conjugation material:



% Monomer = 98.16 % Free SULFO-TAGTM = 7.97

The above product is intended for Research Use Only. Not for use in Diagnostic Procedures.

	Name	Function	Signature	Date
Review/Approval	Vanessa Castleberry	Quality Assurance	Vanessa Castlebury	25JUL2017