

Reporting Changes to Serum/Urine Electrophoresis Testing

On April 2, 2022, the reporting structure for serum (SPEP) and urine (UPEP) protein electrophoresis studies will be updated to standardize this testing performed by the laboratories of the University of Vermont Health Network.

Prior to this change, SPEP and UPEP studies performed at CVPH had the individual protein fractions, including any detected monoclonal protein, reported in g/dL. At UVMMC, SPEP and UPEP studies had the individual protein fractions, including any detected monoclonal protein, reported as a % of total protein. Moving forward, SPEP and UPEP studies performed at either laboratory will have the individual protein fractions, including any detected monoclonal protein, reported in % of total protein **and** g/dL. A reference range will be applied to both the % of total protein and g/dL amount for each individual protein fraction.

Serum Test Build Information:

Epic Code	Reporting Name	Atlas Code	Mayo Access ID	Order LOINC	
LAB174	SPEP with Immunotyping	SPEPIT	FAH5912	24351-9	
Epic Code	Component Name	Reference Range	Atlas Code	Mayo Access ID	LOINC
12301002127	Total Protein g/dL	6.3 - 8.2	TP	FAH5010	2885-2
12301002763	Albumin %	55.8 - 66.1	CAPALB	FAH5627	13980-8
12301012436	Albumin g/dL <i>(new)</i>	3.6 - 5.2	12301012436	FAH5951	2862-1
12301001848	Alpha-1 %	2.9 - 4.9	CAPA1	FAH5628	13978-2
12301012437	Alpha-1 g/dL <i>(new)</i>	0.15 - 0.40	12301012437	FAH5952	2865-4
12301001849	Alpha-2 %	7.1 - 11.8	CAPA2	FAH5629	13981-6
12301012438	Alpha-2 g/dL <i>(new)</i>	0.50 - 1.00	12301012438	FAH5953	2868-8
12301001858	Beta %	8.4 - 13.1	CAPBET	FAH5630	13982-4
12301012439	Beta g/dL <i>(new)</i>	0.60 - 1.20	12301012439	FAH5954	2871-2
12301001949	Gamma %	11.1 - 18.8	CAPGAM	FAH5631	13983-2
12301012440	Gamma g/dL <i>(new)</i>	0.60 - 1.60	12301012440	FAH5955	2874-6
12301002081	Monoclonal Spike %	N/A	SPESPK	FAH5632	33647-9
12301012441	Monoclonal Spike g/dL <i>(new)</i>	N/A	12301012441	FAH5956	33358-3
12301003163	SPEP Comment	N/A	CAPCOM	FAH5633	59462-2
12301002029	Immunotyping, Serum	N/A	SERIT	FAH5634	14895-7

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Serum Test Build Information:

Epic Code	Reporting Name	Atlas Code	Mayo Access ID	Order LOINC	
LAB119	SPEP, Includes Quantitation of Monoclonal Spike	SERPEP	FAH5911	24351-9	
Epic Code	Component Name	Reference Range	Atlas Code	Mayo Access ID	LOINC
12301002127	Total Protein g/dL	6.3 - 8.2	TP	FAH5010	2885-2
12301002763	Albumin %	55.8 - 66.1	CAPALB	FAH5627	13980-8
12301012436	Albumin g/dL <i>(new)</i>	3.6 - 5.2	12301012436	FAH5951	2862-1
12301001848	Alpha-1 %	2.9 - 4.9	CAPA1	FAH5628	13978-2
12301012437	Alpha-1 g/dL <i>(new)</i>	0.15 - 0.40	12301012437	FAH5952	2865-4
12301001849	Alpha-2 %	7.1 - 11.8	CAPA2	FAH5629	13981-6
12301012438	Alpha-2 g/dL <i>(new)</i>	0.50 - 1.00	12301012438	FAH5953	2868-8
12301001858	Beta %	8.4 - 13.1	CAPBET	FAH5630	13982-4
12301012439	Beta g/dL <i>(new)</i>	0.60 - 1.20	12301012439	FAH5954	2871-2
12301001949	Gamma %	11.1 - 18.8	CAPGAM	FAH5631	13983-2
12301012440	Gamma g/dL <i>(new)</i>	0.60 - 1.60	12301012440	FAH5955	2874-6
12301002081	Monoclonal Spike %	N/A	SPESPK	FAH5632	33647-9
12301012441	Monoclonal Spike g/dL <i>(new)</i>	N/A	12301012441	FAH5956	33358-3
12301003163	SPEP Comment	N/A	CAPCOM	FAH5633	59462-2

Urine Test Build Information:

Epic Code	Reporting Name	Atlas Code	Mayo Access ID	Order LOINC	
LAB205	Urine Monoclonal Protein Study (UPEP with Immunotyping), Random	UPER	FAH5642	in process	
Epic Code	Component Name	Reference Range	Atlas Code	Mayo Access ID	LOINC
12301002198	Total Protein, Urine mg/dL	N/A	UTPR	FAH112	35663-4
12301001844	Albumin, Urine %	N/A	UELAB	FAH5643	17819-4
12301012529	Albumin, Urine mg/dL <i>(new)</i>	N/A	12301012529	FAH5962	6942-7
12301001958	Globulins, Urine %	N/A	UELGL	FAH5644	in process
12301012530	Globulins, Urine mg/dL <i>(new)</i>	N/A	12301012530	FAH5963	49047-4
12301012464	Monoclonal Spike, Urine % <i>(new)</i>	N/A	12301012464	FAH5960	42483-8
12301012444	Monoclonal Spike, Urine mg/dL <i>(new)</i>	N/A	12301012444	FAH5959	40661-1
12301003374	UPEP Comment	N/A	UPECOM	FAH5645	49301-5
12301002030	Immunotyping, Urine	N/A	URIT	FAH5646	49299-1

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Urine Test Build Information:

Epic Code	Reporting Name	Atlas Code	Mayo Access ID	Order LOINC	
LAB2027	Urine Monoclonal Protein Study (UPEP with Immunotyping), 24 hour	UPE24	FAH5881	in process	
Epic Code	Component Name	Reference Range	Atlas Code	Mayo Access ID	LOINC
12301002197	Total Protein, Urine 24 hr mg/24hrs	<150 mg/24hrs	UTP24C	FAH118	2889-4
12301002198	Total Protein, Urine mg/dL	N/A	UTPR	FAH112	35663-4
12301000973	Urine Volume	N/A	VOLUME	FAH108	3167-4
12301001313	Urine Collection Period	N/A	PERIOD	FAH107	13362-9
12301001844	Albumin, Urine %	N/A	UELAB	FAH5643	17819-4
12301012442	Albumin, Urine mg/24hrs <i>(new)</i>	N/A	12301012442	FAH5957	6941-9
12301001958	Globulins, Urine %	N/A	UELGL	FAH5644	in process
12301012443	Globulins, Urine mg/24hrs <i>(new)</i>	N/A	12301012443	FAH5958	15356-9
12301012464	Monoclonal Spike, Urine % <i>(new)</i>	N/A	12301012464	FAH5960	42483-8
12301012465	Monoclonal Spike, Urine mg/24hrs <i>(new)</i>	N/A	12301012465	FAH5961	42482-0
12301003374	UPEP Comment	N/A	UPECOM	FAH5645	49301-5
12301002030	Immunotyping, Urine	N/A	URIT	FAH5646	49299-1

This change will provide both the clinician and patient with more complete information about the SPEP and UPEP study without requiring any manual calculation to be performed by the clinician. If you have any questions or concerns, please reach out to the Director of Clinical Chemistry (clayton.wilburn@uvmhealth.org).

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