ERNDIMQA - CYCLE REVIEW

Amino acids 2016

Lab Name : ERN0392 - Tanyalcin Medical Laboratory - Selective Screening and Metabolism Unit

Sample : 2016.01

Methodset : IEC chromatography

Analyte	Your Lab	Med All Labs	n	ZScore	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
2-Aminobutyric acid	25.1	26.0	196	0.4										
Alanine	159	161	256	0.1										
Alloisoleucine	163	153	177	0.6										
Arginine	50.6	56.0	252	1.2										
Asparagine	238	192	236	1.4										
Aspartic Acid	114	124	245	0.4										
Citrulline	240	240	251	0										
Cystine	40.8	39.0	228	0.4										
Glutamic acid	242	222	255	0.6										
Glutamine	1035	1096	246	0.6										
Glycine	430	437	255	0.3										
Histidine	129	146	250	1.3										
Homocitrulline	135	130	96	0.2										
Hydroxyproline	58.6	59.0	214	0.1										
Isoleucine	446	456	255	0.3										
Leucine	1140	1115	259	0.3										
Lysine	61.9	62.0	253	0.1										
Methionine	36.0	29.0	239	0.2										
Ornithine	30.0	28.0	256	0.7										
Phenylalanine	23.3	25.0	259	0.6										
Phospho ethanolamine	0	0	134											
Proline	160	200	241	2										
Saccharopine	30.6	29.0	85	0.5										
Serine	22.8	23.0	253	0										
Taurine	150	149	241	0.1										
Threonine	235	233	253	0.1										
Tyrosine	234	233	260	0.2										
Valine	283	288	260	0.3										

	Score
< 10%	4%
10% - 90 %	96%
> 90 %	0%

	Cumulative Score
< 10%	4%
10% - 90 %	96%
> 90 %	0%

The following comment was added :

04-22-2016	Advisor

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The following comment was added :

Returns were obtained from up to 257 labs. Greater than 90% of labs returned results for 21 amino acids. Low returns were for allo-isoleucine (69%); saccharopine (33%); homocitrulline (37%).

Comparison of returned values with added amounts shows an overall good agreement except for expected losses of phosphoethanolmine and cystine.
The higher than expected methionine value reflects interference from homocitrulline, as noted in previous distributions. Approximately 50 labs reported a methionine value > 3SD.

It is unclear why reporting rates are lower for allo-isoleucine and saccharopine since they can be adequately separated and standards are available for both compounds. For homocitrulline modification of the ion-exchange method programme allows full separation of this compound as described in the annual report for 2015.