



**MAYO CLINIC**  
Mayo Medical Laboratories

**1-800-533-1710**

## **REPORTING CHANGE**

**NOTIFICATION DATE:** May 15, 2009

**EFFECTIVE DATE:** June 16, 2009

### **AMINO ACIDS, QN, CSF #81934**

**EXPLANATION:** On June 16, 2009, additional reporting fields [Specimen, Specimen ID, Source, Order Date, Reason for Referral, Method] will be added to test #81934, Amino Acids, QN, CSF. This change will require new file definition.

**NOTE:** Specimen requirements, fees, and CPT coding will remain unchanged.

**QUESTIONS:** Contact your Mayo Medical Laboratories' Regional Manager  
Sara Siewert, Mayo Medical Laboratories' Technologist Support  
Telephone: 800-533-1710

# TEST DEFINITION

5/15/2009

ORDER CODE	EFF DATE	TC	TITLE	CHECKING NORMALS	PRINT NORMALS (# CODED)	PERFORM SITE *
81934	10/14/2008		AMINO ACIDS, QN, CSF			MCR
			TRANSPORT TEMP : FROZEN/AMBIENT NO/REFRIG NO			
		50429	SPECIMEN			
		50430	SPECIMEN ID			
		50431	SOURCE			
		50432	ORDER DATE			
		50433	REASON FOR REFERRAL			
		50434	METHOD			
81934			TAURINE			
			UNITS: UMOL/L			
			NO SEX			
			No AGE :		; #N81934	
			1D TO 31D : 10-51		; 10-51	
			32D TO 23M : 5-18		; 5-18	
			24M TO 18Y : 4-16		; 4-16	
			19Y TO 150Y : 4-15		; 4-15	
			MALE			
			No AGE :		; #N81934	
			1D TO 31D : 10-51		; 10-51	
			32D TO 23M : 5-18		; 5-18	
			24M TO 18Y : 4-16		; 4-16	

ORDER CODE	EFF DATE	TC	TITLE	CHECKING NORMALS	PRINT NORMALS (# CODED)	PERFORM SITE *
81934 (CONTINUED)						
		81934	TAURINE (CONTINUED)			
			19Y TO 150Y : 4-15		; 4-15	
			FEMALE			
			No AGE :		; #N81934	
			1D TO 31D : 10-51		; 10-51	

32D TO 23M : 5-18 ; 5-18  
 24M TO 18Y : 4-16 ; 4-16  
 19Y TO 150Y : 4-15 ; 4-15

30107 THREONINE

UNITS: UMOL/L  
 NO SEX

No AGE : ; #N30107  
 1D TO 31D : 40-189 ; 40-189  
 32D TO 23M : 17-73 ; 17-73  
 24M TO 18Y : 13-55 ; 13-55  
 19Y TO 150Y : 3-53 ; 3-53

MALE

No AGE : ; #N30107  
 1D TO 31D : 40-189 ; 40-189  
 32D TO 23M : 17-73 ; 17-73  
 24M TO 18Y : 13-55 ; 13-55  
 19Y TO 150Y : 3-53 ; 3-53

FEMALE

No AGE : ; #N30107  
 1D TO 31D : 40-189 ; 40-189  
 32D TO 23M : 17-73 ; 17-73  
 24M TO 18Y : 13-55 ; 13-55  
 19Y TO 150Y : 3-53 ; 3-53

30108 SERINE

UNITS: UMOL/L  
 NO SEX

No AGE : ; #N30108  
 1D TO 31D : 45-144 ; 45-144  
 32D TO 23M : 30-73 ; 30-73  
 24M TO 18Y : 21-46 ; 21-46  
 19Y TO 150Y : 14-55 ; 14-55

MALE

No AGE : ; #N30108  
 1D TO 31D : 45-144 ; 45-144  
 32D TO 23M : 30-73 ; 30-73  
 24M TO 18Y : 21-46 ; 21-46  
 19Y TO 150Y : 14-55 ; 14-55

FEMALE

No AGE : ; #N30108  
 1D TO 31D : 45-144 ; 45-144  
 32D TO 23M : 30-73 ; 30-73  
 24M TO 18Y : 21-46 ; 21-46  
 19Y TO 150Y : 14-55 ; 14-55

ORDER CODE	EFF DATE	TC	TITLE	CHECKING NORMALS	PERFORM PRINT NORMALS (# CODED) SITE *
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30109	ASPARAGINE		
	UNITS: UMOL/L		
	NO SEX		
	NO AGE :		; #N30109
	1D TO 31D : 5-28		; 5-28
	32D TO 23M : 3-15		; 3-15
	24M TO 18Y : 2-10		; 2-10
	19Y TO 150Y : 3-8		; 3-8
	MALE		
	NO AGE :		; #N30109
	1D TO 31D : 5-28		; 5-28
	32D TO 23M : 3-15		; 3-15
	24M TO 18Y : 2-10		; 2-10
	19Y TO 150Y : 3-8		; 3-8
	FEMALE		
	NO AGE :		; #N30109
	1D TO 31D : 5-28		; 5-28
	32D TO 23M : 3-15		; 3-15
	24M TO 18Y : 2-10		; 2-10
	19Y TO 150Y : 3-8		; 3-8
- - - - -			
30110	GLUTAMIC ACID		
	UNITS: UMOL/L		
	NO SEX		
	NO AGE :		; #N30110
	1D TO 31D : 0-17		; 0-17
	32D TO 23M : 0-8		; 0-8
	24M TO 18Y : 0-6		; 0-6
	19Y TO 150Y : 0-8		; 0-8
	MALE		
	NO AGE :		; #N30110
	1D TO 31D : 0-17		; 0-17
	32D TO 23M : 0-8		; 0-8
	24M TO 18Y : 0-6		; 0-6
	19Y TO 150Y : 0-8		; 0-8
	FEMALE		
	NO AGE :		; #N30110
	1D TO 31D : 0-17		; 0-17
	32D TO 23M : 0-8		; 0-8
	24M TO 18Y : 0-6		; 0-6
	19Y TO 150Y : 0-8		; 0-8
- - - - -			
30111	GLUTAMINE		
	UNITS: UMOL/L		
	NO SEX		
	NO AGE :		; #N30111
	1D TO 31D : 542-1493		; 542-1493
	32D TO 23M : 374-848		; 374-848
	24M TO 18Y : 376-806		; 376-806
	19Y TO 150Y : 375-1010		; 375-1010

ORDER CODE	EFF DATE	TC	TITLE	CHECKING NORMALS	PERFORM PRINT NORMALS (# CODED)	SITE *
81934	(CONTINUED)					
		30111	GLUTAMINE (CONTINUED)			
			MALE			
			No AGE	:		; #N30111
			1D TO 31D	:	542-1493	; 542-1493
			32D TO 23M	:	374-848	; 374-848
			24M TO 18Y	:	376-806	; 376-806
			19Y TO 150Y	:	375-1010	; 375-1010
			FEMALE			
			No AGE	:		; #N30111
			1D TO 31D	:	542-1493	; 542-1493
			32D TO 23M	:	374-848	; 374-848
			24M TO 18Y	:	376-806	; 376-806
			19Y TO 150Y	:	375-1010	; 375-1010
		30112	PROLINE			
			UNITS: UMOL/L			
			NO SEX			
			No AGE	:		; #N30112
			1D TO 31D	:	1-10	; 1-10
			32D TO 23M	:	0-7	; 0-7
			24M TO 18Y	:	0-19	; 0-19
			19Y TO 150Y	:	0-3	; 0-3
			MALE			
			No AGE	:		; #N30112
			1D TO 31D	:	1-10	; 1-10
			32D TO 23M	:	0-7	; 0-7
			24M TO 18Y	:	0-19	; 0-19
			19Y TO 150Y	:	0-3	; 0-3
			FEMALE			
			No AGE	:		; #N30112
			1D TO 31D	:	1-10	; 1-10
			32D TO 23M	:	0-7	; 0-7
			24M TO 18Y	:	0-19	; 0-19
			19Y TO 150Y	:	0-3	; 0-3
		30115	GLYCINE			
			UNITS: UMOL/L			
			NO SEX			
			No AGE	:		; #N30115
			1D TO 31D	:	5-38	; 5-38
			32D TO 23M	:	3-21	; 3-21
			24M TO 18Y	:	2-27	; 2-27
			19Y TO 150Y	:	4-23	; 4-23
			MALE			
			No AGE	:		; #N30115

1D TO 31D	:	5-38	:	5-38
32D TO 23M	:	3-21	:	3-21
24M TO 18Y	:	2-27	:	2-27
19Y TO 150Y	:	4-23	:	4-23

FEMALE

ORDER CODE	EFF DATE	TC	TITLE	CHECKING NORMALS	PERFORM PRINT NORMALS (# CODED)	SITE *
81934	(CONTINUED)					
		30115	GLYCINE (CONTINUED)			
			NO AGE	:		; #N30115
			1D TO 31D	:	5-38	; 5-38
			32D TO 23M	:	3-21	; 3-21
			24M TO 18Y	:	2-27	; 2-27
			19Y TO 150Y	:	4-23	; 4-23
		30116	ALANINE			
			UNITS: UMOL/L			
			NO SEX			
			NO AGE	:		; #N30116
			1D TO 31D	:	20-70	; 20-70
			32D TO 23M	:	17-74	; 17-74
			24M TO 18Y	:	14-53	; 14-53
			19Y TO 150Y	:	18-62	; 18-62
			MALE			
			NO AGE	:		; #N30116
			1D TO 31D	:	20-70	; 20-70
			32D TO 23M	:	17-74	; 17-74
			24M TO 18Y	:	14-53	; 14-53
			19Y TO 150Y	:	18-62	; 18-62
			FEMALE			
			NO AGE	:		; #N30116
			1D TO 31D	:	20-70	; 20-70
			32D TO 23M	:	17-74	; 17-74
			24M TO 18Y	:	14-53	; 14-53
			19Y TO 150Y	:	18-62	; 18-62
		30117	CITRULLINE			
			UNITS: UMOL/L			
			NO SEX			
			NO AGE	:		; #N30117
			1D TO 31D	:	1-6	; 1-6
			32D TO 23M	:	0-6	; 0-6
			24M TO 18Y	:	0-6	; 0-6
			19Y TO 150Y	:	0-2	; 0-2
			MALE			
			NO AGE	:		; #N30117
			1D TO 31D	:	1-6	; 1-6
			32D TO 23M	:	0-6	; 0-6

24M TO 18Y : 0-6 ; 0-6  
 19Y TO 150Y : 0-2 ; 0-2  
 FEMALE  
 NO AGE : ; #N30117  
 1D TO 31D : 1-6 ; 1-6  
 32D TO 23M : 0-6 ; 0-6  
 24M TO 18Y : 0-6 ; 0-6  
 19Y TO 150Y : 0-2 ; 0-2

30118 A-AMINO-N-BUTYRIC ACID  
 UNITS: UMOL/L

ORDER CODE	EFF DATE	TC	TITLE	CHECKING NORMALS	PERFORM PRINT NORMALS (# CODED) SITE *
81934	(CONTINUED)				
		30118	A-AMINO-N-BUTYRIC ACID (CONTINUED)		
			NO SEX		
			NO AGE :		; #N30118
			1D TO 31D : 1-7		; 1-7
			32D TO 23M : 0-7		; 0-7
			24M TO 18Y : 0-7		; 0-7
			19Y TO 150Y : 0-7		; 0-7
			MALE		
			NO AGE :		; #N30118
			1D TO 31D : 1-7		; 1-7
			32D TO 23M : 0-7		; 0-7
			24M TO 18Y : 0-7		; 0-7
			19Y TO 150Y : 0-7		; 0-7
			FEMALE		
			NO AGE :		; #N30118
			1D TO 31D : 1-7		; 1-7
			32D TO 23M : 0-7		; 0-7
			24M TO 18Y : 0-7		; 0-7
			19Y TO 150Y : 0-7		; 0-7
		30119	VALINE		
			UNITS: UMOL/L		
			NO SEX		
			NO AGE :		; #N30119
			1D TO 31D : 17-69		; 17-69
			32D TO 23M : 9-31		; 9-31
			24M TO 18Y : 7-40		; 7-40
			19Y TO 150Y : 8-31		; 8-31
			MALE		
			NO AGE :		; #N30119
			1D TO 31D : 17-69		; 17-69
			32D TO 23M : 9-31		; 9-31
			24M TO 18Y : 7-40		; 7-40
			19Y TO 150Y : 8-31		; 8-31

FEMALE  
 NO AGE : ; #N30119  
 1D TO 31D : 17-69 ; 17-69  
 32D TO 23M : 9-31 ; 9-31  
 24M TO 18Y : 7-40 ; 7-40  
 19Y TO 150Y : 8-31 ; 8-31

30120 CYSTINE  
 UNITS: UMOL/L  
 NO SEX  
 NO AGE : ; #N30120  
 1D TO 31D : 0-6 ; 0-6  
 32D TO 23M : 0-7 ; 0-7  
 24M TO 18Y : 0-3 ; 0-3  
 19Y TO 150Y : 0-3 ; 0-3  
 MALE

ORDER CODE	EFF DATE	TC	TITLE	CHECKING NORMALS	PERFORM PRINT NORMALS (# CODED)	SITE *
81934	(CONTINUED)					
		30120	CYSTINE (CONTINUED)			
			NO AGE :		; #N30120	
			1D TO 31D : 0-6		; 0-6	
			32D TO 23M : 0-7		; 0-7	
			24M TO 18Y : 0-3		; 0-3	
			19Y TO 150Y : 0-3		; 0-3	
			FEMALE			
			NO AGE :		; #N30120	
			1D TO 31D : 0-6		; 0-6	
			32D TO 23M : 0-7		; 0-7	
			24M TO 18Y : 0-3		; 0-3	
			19Y TO 150Y : 0-3		; 0-3	
		30121	METHIONINE			
			UNITS: UMOL/L			
			NO SEX			
			NO AGE :		; #N30121	
			1D TO 31D : 3-23		; 3-23	
			32D TO 23M : 2-13		; 2-13	
			24M TO 18Y : 2-6		; 2-6	
			19Y TO 150Y : 1-9		; 1-9	
			MALE			
			NO AGE :		; #N30121	
			1D TO 31D : 3-23		; 3-23	
			32D TO 23M : 2-13		; 2-13	
			24M TO 18Y : 2-6		; 2-6	
			19Y TO 150Y : 1-9		; 1-9	
			FEMALE			
			NO AGE :		; #N30121	

1D TO 31D : 3-23 ; 3-23  
 32D TO 23M : 2-13 ; 2-13  
 24M TO 18Y : 2-6 ; 2-6  
 19Y TO 150Y : 1-9 ; 1-9

30122 ISOLEUCINE  
 UNITS: UMOL/L  
 NO SEX  
 No AGE : ; #N30122  
 1D TO 31D : 4-14 ; 4-14  
 32D TO 23M : 3-13 ; 3-13  
 24M TO 18Y : 2-9 ; 2-9  
 19Y TO 150Y : 1-7 ; 1-7  
 MALE  
 No AGE : ; #N30122  
 1D TO 31D : 4-14 ; 4-14  
 32D TO 23M : 3-13 ; 3-13  
 24M TO 18Y : 2-9 ; 2-9  
 19Y TO 150Y : 1-7 ; 1-7  
 FEMALE  
 No AGE : ; #N30122

ORDER CODE	EFF DATE	TC	TITLE	CHECKING NORMALS	PERFORM PRINT NORMALS (# CODED)	SITE *
81934	(CONTINUED)					
		30122	ISOLEUCINE (CONTINUED)			
			1D TO 31D : 4-14		; 4-14	
			32D TO 23M : 3-13		; 3-13	
			24M TO 18Y : 2-9		; 2-9	
			19Y TO 150Y : 1-7		; 1-7	
		30123	LEUCINE			
			UNITS: UMOL/L			
			NO SEX			
			No AGE :		; #N30123	
			1D TO 31D : 8-36		; 8-36	
			32D TO 23M : 6-22		; 6-22	
			24M TO 18Y : 6-20		; 6-20	
			19Y TO 150Y : 6-16		; 6-16	
			MALE			
			No AGE :		; #N30123	
			1D TO 31D : 8-36		; 8-36	
			32D TO 23M : 6-22		; 6-22	
			24M TO 18Y : 6-20		; 6-20	
			19Y TO 150Y : 6-16		; 6-16	
			FEMALE			
			No AGE :		; #N30123	
			1D TO 31D : 8-36		; 8-36	
			32D TO 23M : 6-22		; 6-22	

24M TO 18Y : 6-20 ; 6-20  
 19Y TO 150Y : 6-16 ; 6-16

30124 TYROSINE  
 UNITS: UMOL/L  
 NO SEX  
 NO AGE : ; #N30124  
 1D TO 31D : 8-53 ; 8-53  
 32D TO 23M : 5-25 ; 5-25  
 24M TO 18Y : 5-17 ; 5-17  
 19Y TO 150Y : 7-19 ; 7-19  
 MALE  
 NO AGE : ; #N30124  
 1D TO 31D : 8-53 ; 8-53  
 32D TO 23M : 5-25 ; 5-25  
 24M TO 18Y : 5-17 ; 5-17  
 19Y TO 150Y : 7-19 ; 7-19  
 FEMALE  
 NO AGE : ; #N30124  
 1D TO 31D : 8-53 ; 8-53  
 32D TO 23M : 5-25 ; 5-25  
 24M TO 18Y : 5-17 ; 5-17  
 19Y TO 150Y : 7-19 ; 7-19

30125 PHENYLALANINE  
 UNITS: UMOL/L

ORDER CODE	EFF DATE	TC	TITLE	CHECKING NORMALS	PERFORM PRINT NORMALS (# CODED) SITE *
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81934 (CONTINUED)

30125			PHENYLALANINE (CONTINUED)		
			NO SEX		
			NO AGE :		; #N30125
			1D TO 31D : 9-45		; 9-45
			32D TO 23M : 5-18		; 5-18
			24M TO 18Y : 4-15		; 4-15
			19Y TO 150Y : 4-18		; 4-18
			MALE		
			NO AGE :		; #N30125
			1D TO 31D : 9-45		; 9-45
			32D TO 23M : 5-18		; 5-18
			24M TO 18Y : 4-15		; 4-15
			19Y TO 150Y : 4-18		; 4-18
			FEMALE		
			NO AGE :		; #N30125
			1D TO 31D : 9-45		; 9-45
			32D TO 23M : 5-18		; 5-18
			24M TO 18Y : 4-15		; 4-15
			19Y TO 150Y : 4-18		; 4-18

30126 ORNITHINE  
 UNITS: UMOL/L  
 NO SEX  
 No AGE : ; #N30126  
 1D TO 31D : 2-17 ; 2-17  
 32D TO 23M : 2-30 ; 2-30  
 24M TO 18Y : 2-11 ; 2-11  
 19Y TO 150Y : 2-7 ; 2-7  
 MALE  
 No AGE : ; #N30126  
 1D TO 31D : 2-17 ; 2-17  
 32D TO 23M : 2-30 ; 2-30  
 24M TO 18Y : 2-11 ; 2-11  
 19Y TO 150Y : 2-7 ; 2-7  
 FEMALE  
 No AGE : ; #N30126  
 1D TO 31D : 2-17 ; 2-17  
 32D TO 23M : 2-30 ; 2-30  
 24M TO 18Y : 2-11 ; 2-11  
 19Y TO 150Y : 2-7 ; 2-7

30127 LYSINE  
 UNITS: UMOL/L  
 NO SEX  
 No AGE : ; #N30127  
 1D TO 31D : 15-51 ; 15-51  
 32D TO 23M : 10-57 ; 10-57  
 24M TO 18Y : 12-38 ; 12-38  
 19Y TO 150Y : 17-32 ; 17-32  
 MALE

ORDER CODE	EFF DATE	TC	TITLE	CHECKING NORMALS	PERFORM PRINT NORMALS (# CODED)	SITE *
81934	(CONTINUED)					
30127			LYSINE (CONTINUED)			
			No AGE	: ; #N30127		
			1D TO 31D	: 15-51 ; 15-51		
			32D TO 23M	: 10-57 ; 10-57		
			24M TO 18Y	: 12-38 ; 12-38		
			19Y TO 150Y	: 17-32 ; 17-32		
			FEMALE			
			No AGE	: ; #N30127		
			1D TO 31D	: 15-51 ; 15-51		
			32D TO 23M	: 10-57 ; 10-57		
			24M TO 18Y	: 12-38 ; 12-38		
			19Y TO 150Y	: 17-32 ; 17-32		
30128			HISTIDINE			
			UNITS: UMOL/L			

NO SEX  
 No AGE : ; #N30128  
 1D TO 31D : 9-40 ; 9-40  
 32D TO 23M : 1-35 ; 1-35  
 24M TO 18Y : 1-18 ; 1-18  
 19Y TO 150Y : 1-13 ; 1-13  
 MALE  
 No AGE : ; #N30128  
 1D TO 31D : 9-40 ; 9-40  
 32D TO 23M : 1-35 ; 1-35  
 24M TO 18Y : 1-18 ; 1-18  
 19Y TO 150Y : 1-13 ; 1-13  
 FEMALE  
 No AGE : ; #N30128  
 1D TO 31D : 9-40 ; 9-40  
 32D TO 23M : 1-35 ; 1-35  
 24M TO 18Y : 1-18 ; 1-18  
 19Y TO 150Y : 1-13 ; 1-13

30129 ARGININE  
 UNITS: UMOL/L  
 NO SEX  
 No AGE : ; #N30129  
 1D TO 31D : 4-27 ; 4-27  
 32D TO 23M : 13-35 ; 13-35  
 24M TO 18Y : 10-28 ; 10-28  
 19Y TO 150Y : 11-25 ; 11-25  
 MALE  
 No AGE : ; #N30129  
 1D TO 31D : 4-27 ; 4-27  
 32D TO 23M : 13-35 ; 13-35  
 24M TO 18Y : 10-28 ; 10-28  
 19Y TO 150Y : 11-25 ; 11-25  
 FEMALE  
 No AGE : ; #N30129

ORDER CODE	EFF DATE	TC	TITLE	CHECKING NORMALS	PERFORM PRINT NORMALS (# CODED)	SITE *
81934	(CONTINUED)					
		30129	ARGININE (CONTINUED)			
			1D TO 31D	: 4-27	; 4-27	
			32D TO 23M	: 13-35	; 13-35	
			24M TO 18Y	: 10-28	; 10-28	
			19Y TO 150Y	: 11-25	; 11-25	
		50435	INTERPRETATION			
		50436	AMENDMENT			

50437 REVIEWED BY

50438 RELEASE DATE

\*PERFORMING SITE LEGEND

MCR MAYO CLINIC DPT OF LAB MED & PATHOLOGY  
200 FIRST STREET SW  
ROCHESTER, MN 55905

LAB DIRECTOR: FRANKLIN R. COCKERILL, III, M.D.

\*\*\* END OF REPORT \*\*\*

CODE	TEXT
N30107	40-189 (0-31 D) 17-73 (32 D-23 MO) 13-55 (2-18 Y) 3-53 (>=19 Y)
N30108	45-144 (0-31 D) 30-73 (32 D-23 MO) 21-46 (2-18 Y) 14-55 (>=19 Y)
N30109	5-28 (0-31 D) 3-15 (32 D-23 MO) 2-10 (2-18 Y) 3-8 (>=19 Y)

MML MESSAGES USED AS NORMALS

CODE	TEXT
N30110	0-17 (0-31 D) 0-8 (32 D-23 MO) 0-6 (2-18 Y) 0-8 (>=19 Y)
N30111	542-1493 (0-31 D) 374-848 (32 D-23 MO) 376-806 (2-18 Y) 375-1010 (>=19 Y)

N30112 1-10 (0-31 D)  
0-7 (32 D-23 MO)  
0-19 (2-18 Y)  
0-3 (>=19 Y)

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N30115 5-38 (0-31 D)  
3-21 (32 D-23 MO)  
2-27 (2-18 Y)  
4-23 (>=19 Y)

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N30116 20-70 (0-31 D)  
17-74 (32 D-23 MO)  
14-53 (2-18 Y)  
18-62 (>=19 Y)

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N30117 1-6 (0-31 D)  
0-6 (32 D-23 MO)  
0-6 (2-18 Y)  
0-2 (>=19 Y)

-----  
N30118 1-7 (0-31 D)  
0-7 (32 D-23 MO)  
0-7 (2-18 Y)  
0-7 (>=19 Y)

-----  
N30119 17-69 (0-31 D)  
9-31 (32 D-23 MO)  
7-40 (2-18 Y)  
8-31 (>=19 Y)

-----  
N30120 0-6 (0-31 D)  
0-7 (32 D-23 MO)  
0-3 (2-18 Y)  
0-3 (>=19 Y)

-----  
N30121 3-23 (0-31 D)  
2-13 (32 D-23 MO)  
2-6 (2-18 Y)  
1-9 (>=19 Y)

-----  
CODE TEXT

-----  
N30122 4-14 (0-31 D)  
3-13 (32 D-23 MO)  
2-9 (2-18 Y)  
1-7 (>=19 Y)

-----  
N30123 8-36 (0-31 D)  
6-22 (32 D-23 MO)  
6-20 (2-18 Y)

6-16 (>=19 Y)

-----  
N30124      8-53 (0-31 D)  
            5-25 (32 D-23 MO)  
            5-17 (2-18 Y)  
            7-19 (>=19 Y)

-----  
N30125      9-45 (0-31 D)  
            5-18 (32 D-23 MO)  
            4-15 (2-18 Y)  
            4-18 (>=19 Y)

-----  
N30126      2-17 (0-31 D)  
            2-30 (32 D-23 MO)  
            2-11 (2-18 Y)  
            2-7 (>=19 Y)

-----  
N30127      15-51 (0-31 D)  
            10-57 (32 D-23 MO)  
            12-38 (2-18 Y)  
            17-32 (>=19 Y)

-----  
N30128      9-40 (0-31 D)  
            1-35 (32 D-23 MO)  
            1-18 (2-18 Y)  
            1-13 (>=19 Y)

-----  
N30129      4-27 (0-31 D)  
            13-35 (32 D-23 MO)  
            10-28 (2-18 Y)  
            11-25 (>=19 Y)

-----  
N81934      10-51 (0-31 D)  
            5-18 (32 D-23 MO)  
            4-16 (2-18 Y)  
            4-15 (>=19 Y)

-----  
TOTAL OF 22 NORMALS CODES

\*\*\* END OF REPORT \*\*\*



## LABORATORY SERVICE REPORT

1-800-533-1710

PATIENT NAME HANSON, SALLY		PATIENT NUMBER		AGE 5	SEX F	ACCESSION # G9117002
ORDERING PHYSICIAN		CLIENT ORDER #				ACCOUNT # LIAISONS
COLLECTION 01/19/09 01:34 P	RECEIVED 01/19/09 01:34 P	REPORT PRINTED 05/15/09 12:21 P		SPECIMEN INFORMATION DATE OF BIRTH:		
<b>DATE</b>	<b>TIME</b>	<b>DATE</b>	<b>TIME</b>			
Test Client Attn: Mayo Liaisons 200 First Street SW Rochester, MN 55905 507-284-8202						

TEST REQUESTED	HI LO	REF RANGE	PERFORM SITE *
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**Amino Acids, QN, CSF**

Specimen		CSF		MCR
Specimen ID		1037866		MCR
Order Date		19 Jan 2009 13:39		MCR
Reason For Referral				MCR
Reason for referral not provided.				
Method				MCR
iTRAQ liquid chromatography-tandem mass spectrometry				
Taurine	H	395	umol/L	4-16 MCR
Threonine	H	140	umol/L	13-55 MCR
Serine	H	353	umol/L	21-46 MCR
Asparagine	H	114	umol/L	2-10 MCR
Glutamic acid	H	34	umol/L	0-6 MCR
Glutamine	L	352	umol/L	376-806 MCR
Proline		12	umol/L	0-19 MCR
Glycine	H	797	umol/L	2-27 MCR
Alanine	H	287	umol/L	14-53 MCR
Citrulline		5	umol/L	0-6 MCR
a-Amino-n-butyric acid	H	9	umol/L	0-7 MCR
Valine		28	umol/L	7-40 MCR
Cystine	H	43	umol/L	0-3 MCR
Methionine		2	umol/L	2-6 MCR
Isoleucine	H	10	umol/L	2-9 MCR
Leucine	H	22	umol/L	6-20 MCR
Tyrosine	H	65	umol/L	5-17 MCR
Phenylalanine	H	40	umol/L	4-15 MCR
Ornithine		10	umol/L	2-11 MCR
Lysine	H	150	umol/L	12-38 MCR
Histidine	H	359	umol/L	1-18 MCR
Arginine	H	65	umol/L	10-28 MCR
Interpretation				MCR

\* Perform Site Legend on last page of report

PATIENT NAME HANSON, SALLY	ORDER STATUS Final	COLLECTION DATE AND TIME 01/19/09 01:34 P
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## LABORATORY SERVICE REPORT

1-800-533-1710

PATIENT NAME HANSON, SALLY		PATIENT NUMBER		AGE 5	SEX F	ACCESSION # G9117002
ORDERING PHYSICIAN		CLIENT ORDER #				ACCOUNT # LIAISONS
COLLECTION 01/19/09 01:34 P	RECEIVED 01/19/09 01:34 P	REPORT PRINTED 05/15/09 12:21 P		SPECIMEN INFORMATION DATE OF BIRTH:		
<b>DATE</b>	<b>TIME</b>	<b>DATE</b>	<b>TIME</b>			
Test Client Attn: Mayo Liaisons 200 First Street SW Rochester, MN 55905 507-284-8202						

TEST REQUESTED	HI LO	REF RANGE	PERFORM SITE *
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Normal amino acid profile. This is a testing patient for QA validation.

Reviewed By	Devin Oglesbee PhD	MCR
Release Date	20 Jan 2009 11:50	MCR

## \* PERFORMING SITE

MCR	Mayo Clinic Dpt of Lab Med & Pathology 200 First Street SW Rochester, MN 55905	Lab Director: Franklin R. Cockerill, III, M.D.
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PATIENT NAME HANSON, SALLY	ORDER STATUS Final	COLLECTION DATE AND TIME 01/19/09 01:34 P
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Specimen receipt and report times are in CST/CDT

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