

TEST DEFINITION

1/19/2011

Code Name

60590 T-Cell Immune Competence Panel

**** End of Name to order code Report ****

MML MML Test setup information

ORDER CODE	EFF DATE	TC	TITLE	Checking Normals	Print normals (# coded)	Perform Site *
60590(profile)			T-Cell Immune Competence Panel			
9336	9/30/2010		T- and B-Cell QN by Flow Cytometry			MCR
			Transport temp : Ambient <72 hours\Refrig <72 hours OK\Frozen NO			
			9336 T- & B-Cell QN by Flow Cytometry			
			- - - - -			
		3321	CD45 Lymph Count, Flow			
			Units: thou/mcL			
			NO SEX			
			No age :		; #NN3321	
			1D to 17Y :	0.66-4.60	; 0.66-4.60	
			18Y to 55Y :	0.99-3.15	; 0.99-3.15	
			56Y to 150Y :	1.00-3.33	; 1.00-3.33	
			MALE			
			No age :		; #NN3321	
			1D to 17Y :	0.66-4.60	; 0.66-4.60	
			18Y to 55Y :	0.99-3.15	; 0.99-3.15	
			56Y to 150Y :	1.00-3.33	; 1.00-3.33	
			FEMALE			
			No age :		; #NN3321	
			1D to 17Y :	0.66-4.60	; 0.66-4.60	
			18Y to 55Y :	0.99-3.15	; 0.99-3.15	
			56Y to 150Y :	1.00-3.33	; 1.00-3.33	
			- - - - -			
		3316	% CD3 (T Cells)			
			Units: %			
			NO SEX			
			No age :		; #N3316	

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ORDER CODE -----	EFF DATE -----	TC -----	TITLE -----	Checking Normals -----	Print normals (# coded) -----	Perform Site *
60590	(continued)					
		3316	% CD3 (T Cells)	(continued)		
			1D to 2M	: 53-84	; 53-84	
			3M to 5M	: 51-77	; 51-77	
			6M to 11M	: 49-76	; 49-76	
			12M to 23M	: 53-75	; 53-75	
			24M to 5Y	: 56-75	; 56-75	
			6Y to 11Y	: 60-76	; 60-76	
			12Y to 17Y	: 56-84	; 56-84	
			18Y to 55Y	: 59-83	; 59-83	
			56Y to 150Y	: 49-87	; 49-87	
			MALE			
			No age	:	; #N3316	
			1D to 2M	: 53-84	; 53-84	
			3M to 5M	: 51-77	; 51-77	
			6M to 11M	: 49-76	; 49-76	
			12M to 23M	: 53-75	; 53-75	
			24M to 5Y	: 56-75	; 56-75	
			6Y to 11Y	: 60-76	; 60-76	
			12Y to 17Y	: 56-84	; 56-84	
			18Y to 55Y	: 59-83	; 59-83	
			56Y to 150Y	: 49-87	; 49-87	
			FEMALE			
			No age	:	; #N3316	
			1D to 2M	: 53-84	; 53-84	
			3M to 5M	: 51-77	; 51-77	
			6M to 11M	: 49-76	; 49-76	
			12M to 23M	: 53-75	; 53-75	
			24M to 5Y	: 56-75	; 56-75	
			6Y to 11Y	: 60-76	; 60-76	
			12Y to 17Y	: 56-84	; 56-84	
			18Y to 55Y	: 59-83	; 59-83	
			56Y to 150Y	: 49-87	; 49-87	
		3318	% CD19 (B Cells)			
			Units: %			
			NO SEX			
			No age	:	; #N3318	
			1D to 2M	: 6-32	; 6-32	
			3M to 5M	: 11-41	; 11-41	
			6M to 11M	: 14-37	; 14-37	
			12M to 23M	: 16-35	; 16-35	
			24M to 5Y	: 14-33	; 14-33	
			6Y to 11Y	: 13-27	; 13-27	
			12Y to 17Y	: 6-23	; 6-23	
			18Y to 55Y	: 6-22	; 6-22	

56Y to 150Y : 3-20 ; 3-20
 MALE
 No age : ; #N3318
 1D to 2M : 6-32 ; 6-32
 3M to 5M : 11-41 ; 11-41
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MML MML Test setup information

ORDER CODE	EFF DATE	TC	TITLE	Checking Normals	Print normals (# coded)	Perform Site *
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60590	(continued)	3318	% CD19 (B Cells)	(continued)		
			6M to 11M	: 14-37	; 14-37	
			12M to 23M	: 16-35	; 16-35	
			24M to 5Y	: 14-33	; 14-33	
			6Y to 11Y	: 13-27	; 13-27	
			12Y to 17Y	: 6-23	; 6-23	
			18Y to 55Y	: 6-22	; 6-22	
			56Y to 150Y	: 3-20	; 3-20	
			FEMALE			
			No age	:	; #N3318	
			1D to 2M	: 6-32	; 6-32	
			3M to 5M	: 11-41	; 11-41	
			6M to 11M	: 14-37	; 14-37	
			12M to 23M	: 16-35	; 16-35	
			24M to 5Y	: 14-33	; 14-33	
			6Y to 11Y	: 13-27	; 13-27	
			12Y to 17Y	: 6-23	; 6-23	
			18Y to 55Y	: 6-22	; 6-22	
			56Y to 150Y	: 3-20	; 3-20	
		4054	% CD16+CD56 (NK cells)			
			Units: %			
			NO SEX			
			No age	:	; #N4054	
			1D to 2M	: 4-18	; 4-18	
			3M to 5M	: 3-14	; 3-14	
			6M to 23M	: 3-15	; 3-15	
			24M to 11Y	: 4-17	; 4-17	
			12Y to 17Y	: 3-22	; 3-22	
			18Y to 55Y	: 6-27	; 6-27	
			56Y to 150Y	: 6-35	; 6-35	
			MALE			
			No age	:	; #N4054	
			1D to 2M	: 4-18	; 4-18	
			3M to 5M	: 3-14	; 3-14	
			6M to 23M	: 3-15	; 3-15	
			24M to 11Y	: 4-17	; 4-17	
			12Y to 17Y	: 3-22	; 3-22	

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18Y to 55Y      : 6-27          ; 6-27
56Y to 150Y    : 6-35          ; 6-35
  FEMALE
No age         :                ; #N4054
1D to 2M       : 4-18          ; 4-18
3M to 5M       : 3-14          ; 3-14
6M to 23M      : 3-15          ; 3-15
24M to 11Y     : 4-17          ; 4-17
12Y to 17Y     : 3-22          ; 3-22
18Y to 55Y     : 6-27          ; 6-27
56Y to 150Y    : 6-35          ; 6-35

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MML MML Test setup information

ORDER CODE	EFF DATE	TC	TITLE	Checking Normals	Print normals (# coded)	Perform Site *
60590	(continued)					
		3319	% CD4 (Helper Cells)			
			Units: %			
			NO SEX			
			No age	:		#N3319
			1D to 2M	:	35-64	35-64
			3M to 5M	:	35-56	35-56
			6M to 11M	:	31-56	31-56
			12M to 23M	:	32-51	32-51
			24M to 5Y	:	28-47	28-47
			6Y to 11Y	:	31-47	31-47
			12Y to 17Y	:	31-52	31-52
			18Y to 55Y	:	31-59	31-59
			56Y to 150Y	:	32-67	32-67
			MALE			
			No age	:		#N3319
			1D to 2M	:	35-64	35-64
			3M to 5M	:	35-56	35-56
			6M to 11M	:	31-56	31-56
			12M to 23M	:	32-51	32-51
			24M to 5Y	:	28-47	28-47
			6Y to 11Y	:	31-47	31-47
			12Y to 17Y	:	31-52	31-52
			18Y to 55Y	:	31-59	31-59
			56Y to 150Y	:	32-67	32-67
			FEMALE			
			No age	:		#N3319
			1D to 2M	:	35-64	35-64
			3M to 5M	:	35-56	35-56
			6M to 11M	:	31-56	31-56
			12M to 23M	:	32-51	32-51
			24M to 5Y	:	28-47	28-47

6Y to 11Y : 31-47 ; 31-47
 12Y to 17Y : 31-52 ; 31-52
 18Y to 55Y : 31-59 ; 31-59
 56Y to 150Y : 32-67 ; 32-67

3320 % CD8 (Supp'r Cells)
 Units: %
 NO SEX
 No age : ; #N3320
 1D to 2M : 12-28 ; 12-28
 3M to 5M : 12-23 ; 12-23
 6M to 11M : 12-24 ; 12-24
 12M to 23M : 14-30 ; 14-30
 24M to 5Y : 16-30 ; 16-30
 6Y to 17Y : 18-35 ; 18-35
 18Y to 55Y : 12-38 ; 12-38
 56Y to 150Y : 8-40 ; 8-40
 MALE
 No age : ; #N3320

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MML MML Test setup information

ORDER CODE	EFF DATE	TC	TITLE	Checking Normals	Print normals (# coded)	Perform Site *
60590	(continued)					
		3320	% CD8 (Supp'r Cells)	(continued)		
			1D to 2M	: 12-28	; 12-28	
			3M to 5M	: 12-23	; 12-23	
			6M to 11M	: 12-24	; 12-24	
			12M to 23M	: 14-30	; 14-30	
			24M to 5Y	: 16-30	; 16-30	
			6Y to 17Y	: 18-35	; 18-35	
			18Y to 55Y	: 12-38	; 12-38	
			56Y to 150Y	: 8-40	; 8-40	
			FEMALE			
			No age	:	; #N3320	
			1D to 2M	: 12-28	; 12-28	
			3M to 5M	: 12-23	; 12-23	
			6M to 11M	: 12-24	; 12-24	
			12M to 23M	: 14-30	; 14-30	
			24M to 5Y	: 16-30	; 16-30	
			6Y to 17Y	: 18-35	; 18-35	
			18Y to 55Y	: 12-38	; 12-38	
			56Y to 150Y	: 8-40	; 8-40	
		3322	CD3 (T Cells)			
			Units: cells/mcL			
			NO SEX			
			No age	:	; #N3322	

1D to 2M : 2500-5500 ; 2500-5500
 3M to 5M : 2500-5600 ; 2500-5600
 6M to 11M : 1900-5900 ; 1900-5900
 12M to 23M : 2100-6200 ; 2100-6200
 24M to 5Y : 1400-3700 ; 1400-3700
 6Y to 11Y : 1200-2600 ; 1200-2600
 12Y to 17Y : 1000-2200 ; 1000-2200
 18Y to 55Y : 677-2383 ; 677-2383
 56Y to 150Y : 617-2254 ; 617-2254

MALE

No age : ; #N3322
 1D to 2M : 2500-5500 ; 2500-5500
 3M to 5M : 2500-5600 ; 2500-5600
 6M to 11M : 1900-5900 ; 1900-5900
 12M to 23M : 2100-6200 ; 2100-6200
 24M to 5Y : 1400-3700 ; 1400-3700
 6Y to 11Y : 1200-2600 ; 1200-2600
 12Y to 17Y : 1000-2200 ; 1000-2200
 18Y to 55Y : 677-2383 ; 677-2383
 56Y to 150Y : 617-2254 ; 617-2254

FEMALE

No age : ; #N3322
 1D to 2M : 2500-5500 ; 2500-5500
 3M to 5M : 2500-5600 ; 2500-5600
 6M to 11M : 1900-5900 ; 1900-5900
 12M to 23M : 2100-6200 ; 2100-6200

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MML MML Test setup information

ORDER CODE	EFF DATE	TC	TITLE	Checking Normals	Print normals (# coded)	Perform Site *
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60590	(continued)					
		3322	CD3 (T Cells)	(continued)		
			24M to 5Y	: 1400-3700	; 1400-3700	
			6Y to 11Y	: 1200-2600	; 1200-2600	
			12Y to 17Y	: 1000-2200	; 1000-2200	
			18Y to 55Y	: 677-2383	; 677-2383	
			56Y to 150Y	: 617-2254	; 617-2254	
			- - - - -			
		3324	CD19 (B Cells)			
			Units: cells/mcL			
			NO SEX			
			No age	: ;	#N3324	
			1D to 2M	: 300-2000	; 300-2000	
			3M to 5M	: 430-3000	; 430-3000	
			6M to 11M	: 610-2600	; 610-2600	
			12M to 23M	: 720-2600	; 720-2600	
			24M to 5Y	: 390-1400	; 390-1400	
			6Y to 11Y	: 270-860	; 270-860	

3M to 5M : 170-830 ; 170-830
 6M to 11M : 160-950 ; 160-950
 12M to 23M : 180-920 ; 180-920
 24M to 5Y : 130-720 ; 130-720
 6Y to 11Y : 100-480 ; 100-480
 12Y to 17Y : 70-480 ; 70-480
 18Y to 55Y : 101-678 ; 101-678
 56Y to 150Y : 110-657 ; 110-657

FEMALE

No age : ; #N4055
 1D to 2M : 170-1100 ; 170-1100
 3M to 5M : 170-830 ; 170-830
 6M to 11M : 160-950 ; 160-950
 12M to 23M : 180-920 ; 180-920
 24M to 5Y : 130-720 ; 130-720
 6Y to 11Y : 100-480 ; 100-480
 12Y to 17Y : 70-480 ; 70-480
 18Y to 55Y : 101-678 ; 101-678
 56Y to 150Y : 110-657 ; 110-657

3325 CD4 (Helper Cells)

Units: cells/mcL

NO SEX

No age : ; #N3325
 1D to 2M : 1600-4000 ; 1600-4000
 3M to 5M : 1800-4000 ; 1800-4000
 6M to 11M : 1400-4300 ; 1400-4300
 12M to 23M : 1300-3400 ; 1300-3400
 24M to 5Y : 700-2200 ; 700-2200
 6Y to 11Y : 650-1500 ; 650-1500
 12Y to 17Y : 530-1300 ; 530-1300
 18Y to 55Y : 424-1509 ; 424-1509
 56Y to 150Y : 430-1513 ; 430-1513

MALE

No age : ; #N3325
 1D to 2M : 1600-4000 ; 1600-4000
 3M to 5M : 1800-4000 ; 1800-4000
 6M to 11M : 1400-4300 ; 1400-4300
 12M to 23M : 1300-3400 ; 1300-3400
 24M to 5Y : 700-2200 ; 700-2200

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MML MML Test setup information

ORDER CODE	EFF DATE	TC	TITLE	Checking Normals	Print normals (# coded)	Perform Site *
60590	(continued)	3325	CD4 (Helper Cells)	(continued)		
			6Y to 11Y	: 650-1500	; 650-1500	
			12Y to 17Y	: 530-1300	; 530-1300	

18Y to 55Y	:	424-1509	;	424-1509
56Y to 150Y	:	430-1513	;	430-1513
FEMALE				
No age	:		;	#N3325
1D to 2M	:	1600-4000	;	1600-4000
3M to 5M	:	1800-4000	;	1800-4000
6M to 11M	:	1400-4300	;	1400-4300
12M to 23M	:	1300-3400	;	1300-3400
24M to 5Y	:	700-2200	;	700-2200
6Y to 11Y	:	650-1500	;	650-1500
12Y to 17Y	:	530-1300	;	530-1300
18Y to 55Y	:	424-1509	;	424-1509
56Y to 150Y	:	430-1513	;	430-1513

3326 CD8 (Supp'r Cells)
Units: cells/mcL

NO SEX				
No age	:		;	#N3326
1D to 2M	:	560-1700	;	560-1700
3M to 5M	:	590-1600	;	590-1600
6M to 11M	:	500-1700	;	500-1700
12M to 23M	:	620-2000	;	620-2000
24M to 5Y	:	490-1300	;	490-1300
6Y to 11Y	:	370-1100	;	370-1100
12Y to 17Y	:	330-920	;	330-920
18Y to 55Y	:	169-955	;	169-955
56Y to 150Y	:	101-839	;	101-839

MALE				
No age	:		;	#N3326
1D to 2M	:	560-1700	;	560-1700
3M to 5M	:	590-1600	;	590-1600
6M to 11M	:	500-1700	;	500-1700
12M to 23M	:	620-2000	;	620-2000
24M to 5Y	:	490-1300	;	490-1300
6Y to 11Y	:	370-1100	;	370-1100
12Y to 17Y	:	330-920	;	330-920
18Y to 55Y	:	169-955	;	169-955
56Y to 150Y	:	101-839	;	101-839

FEMALE				
No age	:		;	#N3326
1D to 2M	:	560-1700	;	560-1700
3M to 5M	:	590-1600	;	590-1600
6M to 11M	:	500-1700	;	500-1700
12M to 23M	:	620-2000	;	620-2000
24M to 5Y	:	490-1300	;	490-1300
6Y to 11Y	:	370-1100	;	370-1100
12Y to 17Y	:	330-920	;	330-920

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ORDER CODE	EFF DATE	TC	TITLE	Checking Normals	Print normals (# coded)	Perform Site *
60590	(continued)					
		3326	CD8 (Supp'r Cells)	(continued)		
			18Y to 55Y	: 169-955	; 169-955	
			56Y to 150Y	: 101-839	; 101-839	
		3327	H/S Ratio			
			NO SEX			
			All Ages	: 1.0-	; >=1.0	
			MALE			
			All Ages	: 1.0-	; >=1.0	
			FEMALE			
			All Ages	: 1.0-	; >=1.0	
		6657	Comment			
60591	10/27/2010		Lymphocyte Proliferation, Mitogens			MCR
			Transport temp : Ambient <48 hours\Refrig NO\Frozen NO			
		32317	Interpretation			
			TEST CODE ALWAYS MESSAGE - [ZASR]			
			ZASR Analyte Specific Reagent			
			This test was developed and its performance characteristics			
			determined by Laboratory Medicine and Pathology, Mayo			
			Clinic. This test has not been cleared or			
			approved by the U.S. Food and Drug Administration.			
		32318	Viab of Lymphs at Day 0			
			Units: %			
			NO SEX			
			All Ages	: 75.0-	; >=75.0	
			MALE			
			All Ages	: 75.0-	; >=75.0	
			FEMALE			
			All Ages	: 75.0-	; >=75.0	
		32321	Max Prolif of PWM as % CD45			
			Units: %			
			NO SEX			
			All Ages	: 4.5-	; >=4.5	
			MALE			
			All Ages	: 4.5-	; >=4.5	
			FEMALE			
			All Ages	: 4.5-	; >=4.5	
		32322	Max Prolif of PWM as % CD3			
			Units: %			
			NO SEX			
			All Ages	: 3.5-	; >=3.5	
			MALE			

All Ages : 3.5- ; >=3.5
 FEMALE
 All Ages : 3.5- ; >=3.5

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ORDER CODE	EFF DATE	TC	TITLE	Checking Normals	Print normals (# coded)	Perform Site *
60590	(continued)					
		32323	Max Prolif of PWM as % CD19 Units: % NO SEX			
			All Ages : 3.9-		; >=3.9	
			MALE			
			All Ages : 3.9-		; >=3.9	
			FEMALE			
			All Ages : 3.9-		; >=3.9	
		32319	Max Prolif of PHA as % CD45 Units: % NO SEX			
			All Ages : 49.9-		; >=49.9	
			MALE			
			All Ages : 49.9-		; >=49.9	
			FEMALE			
			All Ages : 49.9-		; >=49.9	
		32320	Max Prolif of PHA as % CD3 Units: % NO SEX			
			All Ages : 58.5-		; >=58.5	
			MALE			
			All Ages : 58.5-		; >=58.5	
			FEMALE			
			All Ages : 58.5-		; >=58.5	
		32324	Mitogen Comment			
60592	10/26/2010		Lymphocyte Proliferation, Antigens			MCR
			Transport temp : Ambient <48 hours\Refrig NO\Frozen NO			
		32325	Interpretation			
			TEST CODE ALWAYS MESSAGE - [ZASR]			
			ZASR Analyte Specific Reagent			
			This test was developed and its performance characteristics determined by Laboratory Medicine and Pathology, Mayo Clinic. This test has not been cleared or approved by the U.S. Food and Drug Administration.			
		32326	Viab of Lymphs at Day 0 Units: %			

NO SEX
 All Ages : 75.0- ; >=75.0
 MALE
 All Ages : 75.0- ; >=75.0
 FEMALE
 All Ages : 75.0- ; >=75.0

32327 Max Prolif of CA as % CD45
 Units: %
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MML MML Test setup information

ORDER CODE	EFF DATE	TC	TITLE	Checking Normals	Print normals (# coded)	Perform Site *
60590	(continued)					
		32327	Max Prolif of CA as % CD45 (continued)			
			NO SEX			
			All Ages : 5.7-		; >=5.7	
			MALE			
			All Ages : 5.7-		; >=5.7	
			FEMALE			
			All Ages : 5.7-		; >=5.7	
		32328	Max Prolif of CA as % CD3			
			Units: %			
			NO SEX			
			All Ages : 3.0-		; >=3.0	
			MALE			
			All Ages : 3.0-		; >=3.0	
			FEMALE			
			All Ages : 3.0-		; >=3.0	
		32329	Max Prolif of TT as % CD45			
			Units: %			
			NO SEX			
			All Ages : 5.2-		; >=5.2	
			MALE			
			All Ages : 5.2-		; >=5.2	
			FEMALE			
			All Ages : 5.2-		; >=5.2	
		32330	Max Prolif of TT as % CD3			
			Units: %			
			NO SEX			
			All Ages : 3.3-		; >=3.3	
			MALE			
			All Ages : 3.3-		; >=3.3	
			FEMALE			
			All Ages : 3.3-		; >=3.3	

*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 ***

MML Messages used as normals

CODE	TEXT
N3316	53-84 (0-2 mo) 51-77 (3-5 mo) 49-76 (6-11 mo) 53-75 (12-23 mo) 56-75 (2-5 y) 60-76 (6-11 y) 56-84 (12-17 y) 59-83 (18-55 y) 49-87 (>55 y)
N3318	6-32 (0-2 mo) 11-41 (3-5 mo) 14-37 (6-11 mo) 16-35 (12-23 mo) 14-33 (2-5 y) 13-27 (6-11 y) 6-23 (12-17 y) 6-22 (18-55 y) 3-20 (>55 y)
N3319	35-64 (0-2 mo) 35-56 (3-5 mo) 31-56 (6-11 mo) 32-51 (12-23 mo) 28-47 (2-5 y) 31-47 (6-11 y) 31-52 (12-17 y)

31-59 (18-55 y)
32-67 (>55 y)

N3320 12-28 (0-2 mo)
12-23 (3-5 mo)
12-24 (6-11 mo)
14-30 (12-23 mo)
16-30 (2-5 y)
18-35 (6-17 y)
12-38 (18-55 y)
8-40 (>55 y)

N3322 2500-5500 (0-2 mo)
2500-5600 (3-5 mo)
1900-5900 (6-11 mo)
2100-6200 (12-23 mo)
1400-3700 (2-5 y)
1200-2600 (6-11 y)
1000-2200 (12-17 y)
677-2383 (18-55 y)
617-2254 (>55 y)

MML

Messages used as normals

CODE	TEXT
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N3324	300-2000 (0-2 mo) 430-3000 (3-5 mo) 610-2600 (6-11 mo) 720-2600 (12-23 mo) 390-1400 (2-5 y) 270-860 (6-11 y) 110-570 (12-17 y) 99-527 (18-55 y) 31-409 (>55 y)

N3325 1600-4000 (0-2 mo)
1800-4000 (3-5 mo)
1400-4300 (6-11 mo)
1300-3400 (12-23 mo)
700-2200 (2-5 y)
650-1500 (6-11 y)
530-1300 (12-17 y)
424-1509 (18-55 y)
430-1513 (>55 y)

N3326 560-1700 (0-2 mo)
590-1600 (3-5 mo)
500-1700 (6-11 mo)

620-2000 (12-23 mo)
490-1300 (2-5 y)
370-1100 (6-11 y)
330-920 (12-17 y)
169-955 (18-55 y)
101-839 (>55 y)

N4054

4-18 (0-2 mo)
3-14 (3-5 mo)
3-15 (6-23 mo)
4-17 (2-11 y)
3-22 (12-17 y)
6-27 (18-55 y)
6-35 (>55 y)

N4055

170-1100 (0-2 mo)
170-830 (3-5 mo)
160-950 (6-11 mo)
180-920 (12-23 mo)
130-720 (2-5 y)
100-480 (6-11 y)
70-480 (12-17 y)
101-678 (18-55 y)
110-657 (>55 y)

NN3321

0.66-4.60 (0-17 y)
0.99-3.15 (18-55 y)
1.00-3.33 (>55 y)

Total of 11 normals codes

*** End of Report ***