

# SPINREACT CHEMISTRY CONTROL SHEET

	Item	Mult Cal		Normal							Item	Abnormal						Reference Value	
		Lot# 2482	Lot# 2484	Lot# 3582		Lot# 3583		Lot# 3584				Lot# 6570		Lot# 5571		Lot# 5572			
		Exp.Date 2019-04-30	Exp.Date 2020-06-30	Exp. Date 2019-08-31		Exp. Date 2020-04-30		Exp. Date 2020-04-30				Exp. Date 2019-01-31		Exp. Date 2019-08-31		Exp. Date 2020-02-29			
		Value	Value	Mean Value	SD	Mean Value	SD	Mean Value	SD			Mean Value	SD	Mean Value	SD	Mean Value	SD		
1	GOT	98.1	105	46.0	±4.15	45.3	±4.3	46.7	±4.35	1	GOT	141	±12.5	144	±12.5	144	±12.5	0-38	0-31
2	GPT	92	101	47.8	±4.3	51.8	±4.8	52.3	±4.9	2	GPT	131	±12	141	±12.3	142	±12.3	0-40	0-32
3	ALP	468	543	170	±15.5	163	±15.1	169	±15.5	3	ALP	449	±40.5	438	±41	445	±42	98-279	98-279
4	r-GTP	109	120	47.0	±4.3	47.7	±4.4	49.4	±4.5	4	r-GTP	194	±17.5	216	±18.0	237	±19	11-50	7-32
5	BUN	47.6	48.5	19.1	±1.5	19.9	±1.6	19.9	±1.6	5	BUN	60.71	±5.5	59.8	±5.5	61.5	±5.8	7-21	7-21
6	Creatinine	3.75	3.89	1.18	±0.15	1.08	±0.15	1.07	±0.15	6	Creatinine	3.65	±0.33	3.69	±0.33	3.64	±0.33	0.7-1.4	0.6-1.1
7	Glucose	196	201	96.5	±7.3	98.1	±7.5	98.7	±7.5	7	Glucose	255	±19	256	±19	261	±19	60-110	60-110
8	Cholesterol	168	159	79.9	±5.9	79	±5.8	78	±5.8	8	Cholesterol	201	±15	188	±15.5	183	±15.1	140-240	140-240
9	TG	130	148	114	±9	127.0	±11.5	127.0	±11.5	9	TG	226	±18	228	±18.5	237	±20.5	40-160	35-135
10	T-Bilirubin	4.88	4.29	1.17	±0.11	1.16	±0.11	1.15	±0.11	10	T-Bilirubin	4.56	±0.41	4.13	±0.40	4.25	±0.40	0.3-1.2	0.3-1.2
11	D-Bilirubin	1.27	1.29	0.36	±0.06	0.34	±0.06	0.35	±0.06	11	D-Bilirubin	1.32	±0.2	1.32	±0.25	1.33	±0.25	0-0.2	0-0.2
12	T-protein	4.82	5.18	6.92	±0.43	6.25	±0.43	6.26	±0.43	12	T-protein	5.06	±0.31	5.15	±0.32	4.75	±0.28	6.6-8.3	6.6-8.3
13	Albumin	3.47	3.65	5.34	±0.475	5.03	±0.48	4.99	±0.47	13	Albumin	3.51	±0.32	3.52	±0.32	3.32	±0.30	3.5-5.0	3.5-5.0
14	HDL-CHOL	61.2	55.1	24.6	±3.1	24.2	±3.1	24.7	±3.2	14	HDL-CHOL	76.8	±9.6	69.2	±9.6	68.9	±9.6	35-50	45-60
15	Amyl	230	230	88.4	±7.9	83	±7.9	83.8	±8.0	15	Amyl	200	±18.0	214	±18.5	210	±18.0	0-90	0-90
16	LDH	515	562	321	±29.5	316	±29	322	±29.5	16	LDH	609	±55.5	603	±55	657	±58	230-460	230-460
17	UA	5.48	5.3	4.45	±0.33	4.55	±0.35	4.52	±0.34	17	UA	10.5	±0.8	10.7	±0.8	10.9	±0.9	3.6-7.7	2.5-6.8
18	CK	356	355	161	±14.5	145	±13.5	149	±14.0	18	CK	518	±46.5	508	±46	531	±50	0-175	0-190
19	LDL	60.2	62.2	38.4	±3.85	40.4	±3.9	41.8	±4.0	19	LDL	69.4	±6.95	62.8	±6.9	62.8	±6.9	0-130	0-130
20	Calcium	11.1	10.4	8.19	±0.505	8.51	±0.55	8.45	±0.54	20	Calcium	13.8	±0.85	13.1	±0.85	13.9	±0.85	8.5-10.5	8.5-10.5
21	Phospho.	5.22	5.68	3.9	±0.31	4.02	±0.35	3.99	±0.33	21	Phospho.	7.03	±0.56	6.85	±0.56	6.96	±0.57	2.5-5.0	2.5-5.0

**참고사항 :**

1. ALP는 p-Nitrophenylphosphate, Kinetic DGKC (DEA Buffer) method.
2. T-BIL/D-BIL 는 Erba 시약으로 DMSO Colorimetric with sample blank이며 D-BIL은 원래 값에 x 0.5를 함.
3. Urea (BUN)은 Urease-G L D H, Kinetic UV method (Urea를 BUN으로 환산할 경우 Urea x 0.467)
4. 위의 Mean Value와 SD는 검사실의 조건에 따라 일부 차이가 날수 있으므로 참고로 활용하시기바랍니다.

# SPINREACT CHEMISTRY CONTROL SHEET

	Item	Mult Cal		Normal							Item	Abnormal						Reference Value	
		Lot# 2484	Lot# 32484	Lot# 3584		Lot# 3585		Lot# 3586				Lot# 5571		Lot# 5572		Lot# 5573			
		Exp.Date 2020-06-30	Exp.Date 2021-02-28	Exp. Date 2020-04-30		Exp. Date 2020-07-31		Exp. Date 2021-02-28				Exp. Date 2019-08-31		Exp. Date 2020-02-29		Exp. Date 2020-11-30			
		Value	Value	Mean Value	SD	Mean Value	SD	Mean Value	SD			Mean Value	SD	Mean Value	SD	Mean Value	SD		
1	GOT	105	105	46.7	±4.35	47.2	±3.8	48.2	±4.4	1	GOT	144	±12.5	144	±12.5	146	±13.0	0-38	0-31
2	GPT	101	101	52.3	±4.9	49	±3.9	50.1	±4.5	2	GPT	141	±12.3	142	±12.3	145	±13.0	0-40	0-32
3	ALP	543	543	169	±15.5	173	±13.9	179	±16.0	3	ALP	438	±41	445	±42	467	±42.0	98-279	98-279
4	r-GTP	120	120	49.4	±4.5	47.5	±3.8	47.9	±4.3	4	r-GTP	216	±18.0	237	±19	232	±21.0	11-50	7-32
5	BUN	48.5	48.5	19.9	±1.6	19.7	±1.6	19.6	±1.5	5	BUN	59.8	±5.5	61.5	±5.8	61.2	±5.0	7-21	7-21
6	Creatinine	3.89	3.89	1.07	±0.15	1.07	±0.15	1.05	±0.1	6	Creatinine	3.69	±0.33	3.64	±0.33	3.68	±0.33	0.7-1.4	0.6-1.1
7	Glucose	201	201	98.7	±7.5	95.1	±7.6	95.4	±7.3	7	Glucose	256	±19	261	±19	261	±19.5	60-110	60-110
8	Cholesterol	159	159	78	±5.8	73.4	±5.8	72.8	±5.4	8	Cholesterol	188	±15.5	183	±15.1	183	±13.5	140-240	140-240
9	TG	148	148	127.0	±11.5	122.0	±14.6	124.0	±10.0	9	TG	228	±18.5	237	±20.5	239	±19.0	40-160	35-135
10	T-Bilirubin	4.29	4.29	1.15	±0.11	1.2	±0.11	1.17	±0.1	10	T-Bilirubin	4.13	±0.40	4.25	±0.40	4.28	±0.39	0.3-1.2	0.3-1.2
11	D-Bilirubin	1.29	1.29	0.35	±0.06	0.37	±0.06	0.35	±0.06	11	D-Bilirubin	1.32	±0.25	1.33	±0.25	1.3	±0.25	0-0.2	0-0.2
12	T-protein	5.18	5.18	6.26	±0.43	6.84	±0.55	6.89	±0.43	12	T-protein	5.15	±0.32	4.75	±0.28	4.77	±0.3	6.6-8.3	6.6-8.3
13	Albumin	3.65	3.65	4.99	±0.47	5.16	±0.45	5.19	±0.46	13	Albumin	3.52	±0.32	3.32	±0.30	3.25	±0.30	3.5-5.0	3.5-5.0
14	HDL-CHOL	55.1	55.1	24.7	±3.2	23.2	±2.8	22.8	±2.85	14	HDL-CHOL	69.2	±9.6	68.9	±9.6	69.3	±8.7	35-50	45-60
15	Amyl	230	230	83.8	±8.0	79.9	±8.0	80.4	±7.2	15	Amyl	214	±18.5	210	±18.0	211	±19.0	0-90	0-90
16	LDH	562	562	322	±29.5	327	±26.2	320	±29.5	16	LDH	603	±55	657	±58	663	±60.5	230-460	230-460
17	UA	5.3	5.3	4.52	±0.34	4.37	±0.36	4.43	±0.33	17	UA	10.7	±0.8	10.9	±0.9	10.9	±0.9	3.6-7.7	2.5-6.8
18	CK	355	355	149	±14.0	164	±19.7	165	±14.5	18	CK	508	±46	531	±50	527	±47	0-175	0-190
19	LDL	62.2	62.2	41.8	±4.0	36.2	±3.8	35.7	±3.55	19	LDL	62.8	±6.9	62.8	±6.9	63.3	±6.35	0-130	0-130
20	Calcium	10.4	10.4	8.45	±0.54	8.36	±0.53	8.47	±0.52	20	Calcium	13.1	±0.85	13.9	±0.85	13.9	±0.85	8.5-10.5	8.5-10.5
21	Phospho.	5.68	5.68	3.99	±0.33	3.89	±0.3	3.89	±0.31	21	Phospho.	6.85	±0.56	6.96	±0.57	7.0	±0.56	2.5-5.0	2.5-5.0

**참고사항 :**

- 1.ALP는 p-Nitrophenylphosphate, Kinetic DGKC (DEA Buffer) method.
- 2.T-BIL/D-BIL 는 Erba 시약으로 DMSO Colorimetric with sample blank이며 D-BIL은 원래 값에 x 0.5를 함.
- 3.Urea (BUN)은 Urease-G L D H, Kinetic UV method (Urea를 BUN으로 환산할 경우 Urea x 0.467)
- 4.위의 Mean Value와 SD는 검사실의 조건에 따라 일부 차이가 날수 있으므로 참고로 활용하시기바랍니다.

# SPINREACT CHEMISTRY CONTROL SHEET

	Item	Mult Cal		Normal							Item	Abnormal						Reference Value	
		Lot# 32484	Lot# 2486	Lot# 3585		Lot# 3586		Lot# 4587				Lot# 5572		Lot# 5573		Lot# 25573			
		Exp.Date 2021-02-28	Exp.Date 2022-03-31	Exp. Date 2020-07-31		Exp. Date 2021-02-28		Exp. Date 2021-07-31				Exp. Date 2020-02-29		Exp. Date 2020-11-30		Exp. Date 2021-07-31			
		Value	Value	Mean Value	SD	Mean Value	SD	Mean Value	SD			Mean Value	SD	Mean Value	SD	Mean Value	SD		
1	GOT	105	100	47.2	±3.8	48.2	±4.4	50.6	±4.6	1	GOT	144	±12.5	146	±13.0	146	±13.0	0-38	0-31
2	GPT	101	90.9	49	±3.9	50.1	±4.5	47.2	±4.3	2	GPT	142	±12.3	145	±13.0	145	±13.0	0-40	0-32
3	ALP	543	487	173	±13.9	179	±16.0	212	±19.0	3	ALP	445	±42	467	±42.0	467	±42.0	98-279	98-279
4	r-GTP	120	114	47.5	±3.8	47.9	±4.3	40.0	±3.6	4	r-GTP	237	±19	232	±21.0	232	±21.0	11-50	7-32
5	BUN	48.5	49	19.7	±1.6	19.6	±1.5	19.5	±1.5	5	BUN	61.5	±5.8	61.2	±5.0	61.2	±5.0	7-21	7-21
6	Creatinine	3.89	3.89	1.07	±0.15	1.05	±0.1	1.0	±0.09	6	Creatinine	3.64	±0.33	3.68	±0.33	3.68	±0.33	0.7-1.4	0.6-1.1
7	Glucose	201	196	95.1	±7.6	95.4	±7.3	104	±7.3	7	Glucose	261	±19	261	±19.5	261	±19.5	60-110	60-110
8	Cholesterol	159	161	73.4	±5.8	72.8	±5.4	102	±7.6	8	Cholesterol	183	±15.1	183	±13.5	183	±13.5	140-240	140-240
9	TG	148	139	122.0	±14.6	124.0	±10.0	122.0	±9.5	9	TG	237	±20.5	239	±19.0	239	±19.0	40-160	35-135
10	T-Bilirubin	4.29	4.58	1.2	±0.11	1.17	±0.1	0.9	±0.1	10	T-Bilirubin	4.25	±0.40	4.28	±0.39	4.28	±0.39	0.3-1.2	0.3-1.2
11	D-Bilirubin	1.29	1.3	0.37	±0.06	0.35	±0.06	0.35	±0.06	11	D-Bilirubin	1.33	±0.25	1.3	±0.25	1.3	±0.25	0-0.2	0-0.2
12	T-protein	5.18	5.25	6.84	±0.55	6.89	±0.43	4.98	±0.3	12	T-protein	4.75	±0.28	4.77	±0.3	4.77	±0.3	6.6-8.3	6.6-8.3
13	Albumin	3.65	3.65	5.16	±0.45	5.19	±0.46	3.26	±0.3	13	Albumin	3.32	±0.30	3.25	±0.30	3.25	±0.30	3.5-5.0	3.5-5.0
14	HDL-CHOL	55.1	56.1	23.2	±2.8	22.8	±2.85	34.4	±4.3	14	HDL-CHOL	68.9	±9.6	69.3	±8.7	69.3	±8.7	35-50	45-60
15	Amyl	230	215	79.9	±8.0	80.4	±7.2	75.8	±6.8	15	Amyl	210	±18.0	211	±19.0	211	±19.0	0-90	0-90
16	LDH	562	515	327	±26.2	320	±29.5	337	±31	16	LDH	657	±58	663	±60.5	663	±60.5	230-460	230-460
17	UA	5.3	5.42	4.37	±0.36	4.43	±0.33	4.54	±0.34	17	UA	10.9	±0.9	10.9	±0.9	10.9	±0.9	3.6-7.7	2.5-6.8
18	CK	355	361	164	±19.7	165	±14.5	144	±13.0	18	CK	531	±50	527	±47	527	±47	0-175	0-190
19	LDL	62.2	67.3	36.2	±3.8	35.7	±3.55	48	±4.8	19	LDL	62.8	±6.9	63.3	±6.35	63.3	±6.35	0-130	0-130
20	Calcium	10.4	10.6	8.36	±0.53	8.47	±0.52	8.42	±0.52	20	Calcium	13.9	±0.85	13.9	±0.85	13.9	±0.85	8.5-10.5	8.5-10.5
21	Phospho.	5.68	5.13	3.89	±0.3	3.89	±0.31	3.77	±0.3	21	Phospho.	6.96	±0.57	7.0	±0.56	7.0	±0.56	2.5-5.0	2.5-5.0

**참고사항 :**

1. ALP는 p-Nitrophenylphosphate, Kinetic DGKC (DEA Buffer) method.
2. T-BIL/D-BIL 는 Erba 시약으로 DMSO Colorimetric with sample blank이며 D-BIL은 원래 값에 x 0.5를 함.
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