

Quality control of New 8-OHdG Check ELISA

(code: KOG-200S/E)

1) Comparison of standard curves of different production lot.

Lot #	8-OHdG standards (absorbance at 450nm)					
	0.5 ng/mL	2 ng/mL	8 ng/mL	20 ng/mL	80 ng/mL	200 ng/mL
Lot. 032	1.621	1.483	1.099	0.678	0.263	0.138
Lot. 033	1.855	1.684	1.272	0.874	0.363	0.184
Lot. 034	1.782	1.656	1.314	0.894	0.385	0.229

2) Preparation of QC samples.

Prepare three normal human urine samples. Add 8-OHdG standard to prepare QC sample with high concentration of 8-OHdG. Please repeat freeze-thaw cycle at least three times and remove insoluble materials by centrifugation. Store the aliquots below -80 degree C. Before use, QC samples should be thawed out by incubation at 37 degree C for 1 hour or 4 degree C for over night.

3) Result of QC samples.

Lot #	QC samples (ng/mL)					
	S-1	S-2	S-3	U-1	U-2	U-3
Lot. 032	107.3	28.5	9.6	74.8	28.3	15.9
Lot. 033	121.1	29.9	9.5	90.5	29.4	14.0
Lot. 034	124.2	30.6	9.5	88.7	29.2	14.5

4) Intra-assay variation of purified 8-OHdG (N=6).

	New 8-OHdG Check, lot.034 (absorbance at 450nm)					
	0.5 ng/mL	2 ng/mL	8 ng/mL	20 ng/mL	80 ng/mL	200 ng/mL
1	1.818	1.658	1.318	0.892	0.374	0.241
2	1.762	1.636	1.342	0.917	0.387	0.241
3	1.784	1.684	1.315	0.890	0.391	0.225
4	1.778	1.669	1.311	0.905	0.390	0.224
5	1.777	1.630	1.291	0.884	0.395	0.232
6	1.772	1.658	1.304	0.874	0.371	0.210
Mean	1.782	1.656	1.314	0.894	0.385	0.229
S.D.	0.019	0.020	0.017	0.015	0.010	0.012
C.V.	1.1%	1.2%	1.3%	1.7%	2.6%	5.2%

5) Intra-assay variation of QC samples (N=6).

	New 8-OHdG Check, lot.034 (ng/mL)					
	S-1	S-2	S-3	U-1	U-2	U-3
1	119.9	30.3	9.4	83.4	27.7	13.6
2	125.0	30.5	9.6	88.3	28.9	15.1
3	112.4	29.7	9.1	83.1	28.3	14.3
4	129.7	30.5	9.4	89.8	29.4	14.6
5	129.0	30.9	9.6	92.4	31.4	14.3
6	129.0	31.4	9.9	95.3	29.4	15.2
Mean	124.2	30.6	9.5	88.7	29.2	14.5
S.D.	6.88	0.55	0.28	4.84	1.25	0.61
C.V.	5.5%	1.8%	2.9%	5.5%	4.3%	4.2%

6) Inter-assay variation of QC samples (N=6).

	QC samples (ng/mL)					
	S-1	S-2	S-3	U-1	U-2	U-3
Lot.029	117.9	30.9	10.2	82.5	28.3	15.4
Lot.030	124.9	32.2	8.6	93.8	28.4	15.9
Lot.031	117.5	30.0	10.2	88.3	27.2	13.9
Lot.032	107.3	28.5	9.6	74.8	28.3	15.9
Lot.033	121.1	29.9	9.5	90.5	29.4	14.0
Lot.034	124.2	30.6	9.5	88.7	29.2	14.5
Mean	118.8	30.4	9.6	86.4	28.5	14.9
S.D.	6.43	1.23	0.59	6.79	0.78	0.92
C.V.	5.4%	4.0%	6.1%	7.9%	2.8%	6.1%

Samples were assayed in N=6 for each days.