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	CEDx Labs
1	Comprehensive Esoterie Diagnostics

Method / Test type	ELISA / Quantitative
Sample	Urine in sterile container without additives
Sample volume	4 ml
Min. volume accepted	2 ml
Sample collection	Collect urine using normal process – pour off required sample volume into clean sterile container suitable for shipping.
Shipping	Ship frozen or refrigerated, for next-day delivery. Frozen is recommended.
Stability	30 days at -20°C (Frozen); OR 7 days at 4°C (Refrigerated)
Rejection criteria	Sample that is not urine.
	Clearly contaminated sample – bacterial, fungal, blood, foreign objects.
	Sample arriving outside of stability.
Reference range	0.71 – 21.55 ng/mg creatinine
Reporting time	3 days (from lab receipt)
Significance	8-hydroxy-2-deoxy guanosine (8-OHdG) is produced from oxidative damage of DNA and has been used as a marker of oxidative stress. Increased levels of 8-OHdG have been associated with aging, various cancers, hypertension, and diabetes.
	The kidneys actively filter free 8-OHdG out of bloodstream into urine hence the preferred (least complex, and non-invasive) matrix for the measurement of free 8-OHdG is urine.
Test specifics	This 8-OHdG ELISA is a competitive ELISA that can be used for quantification of 8-OHdG in urine.
	To summarize the assay: this ELISA utilizes an 8-hydroxy-2-deoxy guanosine-coated plate. Samples or standard concentration(s) of 8-OHdG are incubated in each well with an HRP-conjugated 8-OHdG specific-antibody.
	Washing removes antibody not bound to the 8-OHdG coated to plate.
	For color development TMB (a colorimetric substrate for HRP) is added to each well, incubated in dark for fixed time, a stop solution is added and the plate read at 450nm. The higher the level of color development, the lower the concentration of 8-OHdG in the sample or standard originally in the well. Based on the standards used, the assay range is 0.94 - 60 ng/mL, with a sensitivity of 0.59 ng/mL.