		PATIENT: Sample Report				TEST REF: <b>TST-##-####</b> #		
	Laboratories	TEST NUMBER:	#########	COLLECTED:	dd/mm/yyyy		New distate sector de s	
dic		PATIENT NUMBER:	##########	RECEIVED:	dd/mm/yyyy	PRACTITIONER:	Nordic Laboratories	
	Laboratories	GENDER:	Male	TESTED:	dd/mm/yyyy	ADDRESS:		
		AGE:	42					
		DATE OF BIRTH:	dd-mm-yyyy					

## **TEST NAME: Oxidative Damage (8-OHdG)**

Norc

## DNA/RNA Oxidative Damage Assay; Urine

	RESULT / UNIT	REFERENCE	LOW	MODERATE	HIGH
8-hydroxy-2'-deoxyguanosine* (8-OHdG)	7.5 ng/mg creat	< 8.2			
			2.5 <sup>th</sup> 16 <sup>th</sup>	PERCENTILE	84 <sup>th</sup> 97.5 <sup>th</sup>
Creatinine	34.5 mg/dL	35- 240			

Oxidation of DNA and RNA occurs most readily at the guanine residues and measurement of these biomarkers in urine provides a quantitative assessment of oxidative stress. Although about 20 oxidative lesions in DNA have been identified to date, RNA is more sensitive to reactive oxygen species in part due to their compartmentalization in the cytosol as well as the nucleus. The most abundant lesion in DNA and RNA is 8-hydroxyguanosine (8-OHG); 8-OHG is the only measurable oxidized RNA lesion. With respect to oxidized DNA lesions, 8-hydroxy-2'-deoxyguanosine (8-OHdG) and it's analog 8hydroxyguanine are the most commonly studied and detected by-products of DNA damage that are excreted in the urine upon DNA repair. Urinary 8-OHdG and its analogs, 8-OHG and 8-hydroxyguanine, are sensitive biomarkers of oxidative stress and have been associated with many diseases, including bladder and prostate cancer, cystic fibrosis, atopic dermatitis and rheumatoid arthritis. Parkinson's disease, Alzheimer's disease and Huntington's disease. Elevated levels of DNA and RNA damage have been measured in a wide range of neurological conditions.

Comments:		SPECIMEN DATA		
Date Received:	11/11/2018 11/11/2018 11/11/2018	Collection Period: <b>Random</b> Volume:	<b><di:< b=""> less than d</di:<></b>	
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