

# Test kit: 8-hydroxy- deoxyguanosine

ORY ANALYSIS – URINE TEST

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## An easily measurable biomarker for oxidative stress

Oxidative stress is a state of metabolism in which there is an imbalance between free radicals and radical scavengers. Free radicals are oxygen compounds that are missing an electron. They are particularly reactive as they strive to replace their missing electron. To do this, they snatch electrons from other molecules, which in turn leads to the formation of new free radicals. In the case of an excess of

aggressive oxygen compounds, this chain reaction can have a stressful effect on the organism. The resulting imbalance in the body is called oxidative stress. Free radicals act by impairing the regulated course of metabolic processes. An excess of free radicals can even lead to the demise of affected cells.

### How does oxidative stress develop?

Our body is actually permanently under a certain amount of oxidative stress and can usually handle it well. However, when this occurs more frequently, increased disturbances of the metabolic processes and damage to the cells occur. The causes include:

- Stress
- smoking & alcohol consumption
- diet low in vital substances,
- excessive consumption of sugar
- lack of sleep
- infections, inflammations, allergies
- chronic diseases (diabetes, rheumatism or Alzheimer's disease)
- radiotherapy, chemotherapy
- environmental toxins and pollutants in the air

## TEST INSTRUCTION:



### CHECK

- Requirement sheet
- Instructions for use
- 1 urine monovette
- 1 collection tip
- 1 transport tube
- Shipping carton + adhesive tape for secure sealing



### TEST INSTRUCTION

- Please use midstream urine (urine is collected without interrupting urination by having the patient hold the collection cup in the urine stream. This should be filled about halfway). The first and last part of the urine is not collected.
- Then take the urine sample using the enclosed urine monovette: Remove the small yellow cap from the front of the urine monovette and attach the extension tip to the monovette.
- Use the urine monovette with the extension tip like a syringe and draw urine into the monovette until it is completely filled.
- Remove the extension and throw it in the trash, put the small yellow cap back on the monovette, and then break off the white pull-on tip of the monovette at the predetermined breaking point to secure the sample
- Put the filled monovette into the transport tube and close it with the screw cap
- The monovette does not need to be labeled, as it is already provided with a barcode containing your data



### PACKING AND SHIPPING

Please put the coded urine tube into the transport tube and this together with the completed request form into the shipping bag and bring it to the mailbox or post office. Shipping envelope does not require postage.



***Important note: Please do not ship on Friday (weekend) or before holidays!***

*Done! You will receive an e-mail when your results are in.*