

Screening Report

Platinum Screen

Date of issue

4th February 2021

Screening Report

Introduction

The following report is the result of a biochemical analysis using state-of-the-art mass spectrometry technology, which is applied to human hair. This innovative application offers additional analytical information that can be used as complementary information with other medically relevant laboratory tests, medical history, physical examinations, and the clinical expertise of a physician or medical specialist.

The data acquired from your hair, through the Hair Diagnostix platinum screen, is presented in a detailed and retrospective graph. This is the result of a mass spectrometry screen of the building blocks of your hair to determine the detectable levels of platinum and to assess whether those levels are below, comparable to, or above the mean values of the control group.

Platinum analysis

Platinum is analysed in relation to silicone implant issues, such as joint implants or breast implants, as a component in the manufacturing process. FDA stated in their Backgrounder on Platinum in Silicone Breast Implants (2018):

"Platinum is a metal used as a catalyst in the manufacture of the shell and gel components of silicone breast implants. The small amounts of platinum remaining in the product following manufacturing may enter the body, either by diffusing through the intact shell (i.e., through gel bleed) or through an implant rupture."

For a better understanding of the relation of platinum to breast implants, please see the answers about the platinum screen in our FAQ at www.hairdiagnostix.com

Effort to the best of our ability

This report is the result of our best efforts, using the most appropriate state-of-the-art technology in this scientific area. Hair Diagnostix ensures that the report is complete and unique per person.

This analysis including levels, population average and time indication is based upon the sample and sampling technique as described in the included instruction card, of which the most important are:

- Sample hairs include the root
- Sample hairs are at least 4 cm long
- Sufficient amount of sample hairs

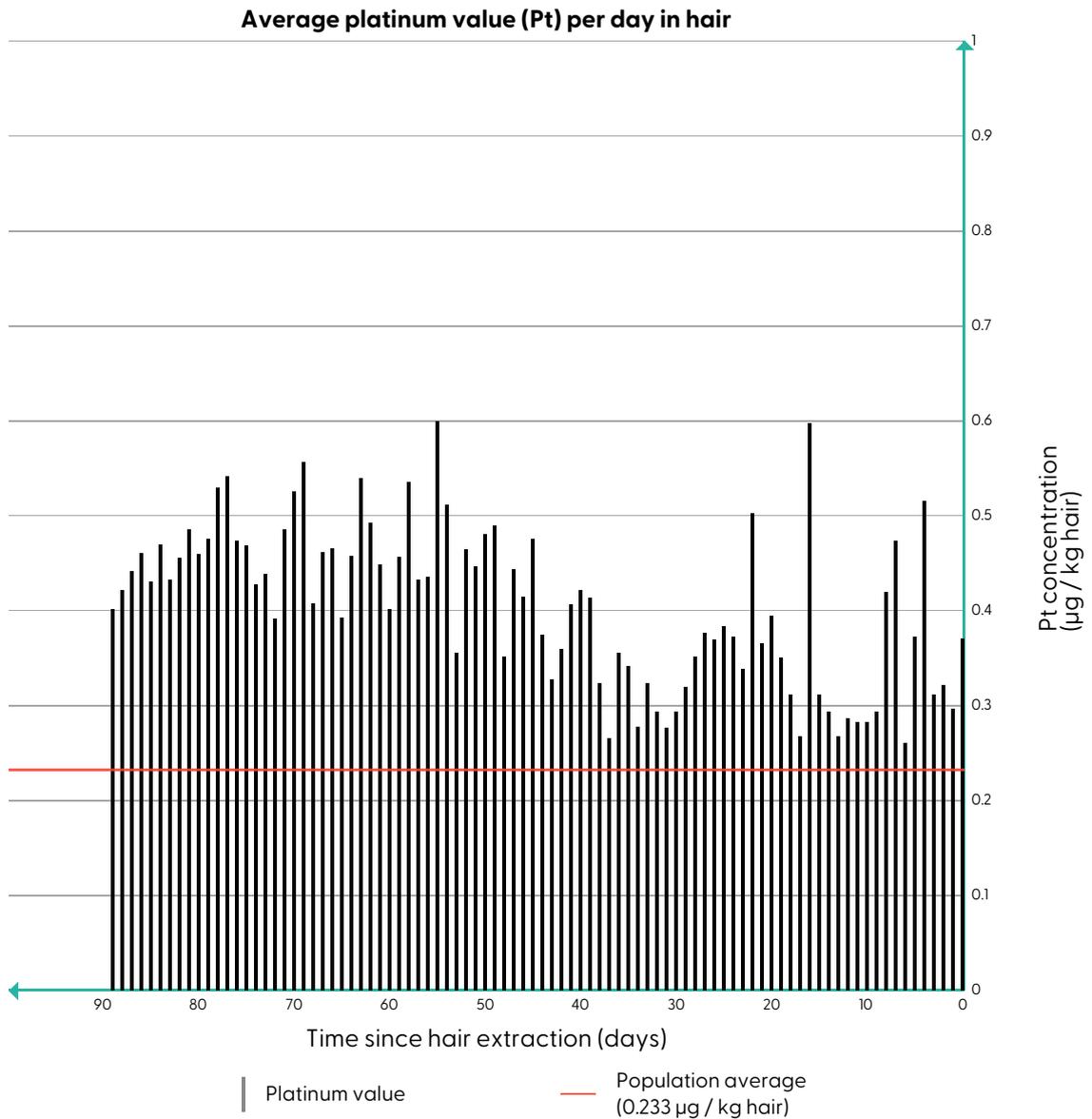
Graph

The graph(s), as shown on the next page, provide a visual representation of the molecules and/or elements requested by the client, which are incorporated in the hair matrix. Hair Diagnostix provides the relevant timeline assuming that the extraction date provided by the customer is correct.

Screening result

The following graph shows the readout of platinum in your hair. The horizontal axis shows the time since extraction in days and the vertical axis shows the amount of platinum (Pt) in hair, as micrograms (μg) of Pt per kilogram (kg) of hair. In order to be able to yield quantitative results, European Standard Reference Materials are used to perform continuous base calibrations, which therefore creates the possibility for Hair Diagnostix to give you a quantified readout in the graph.

The extraction date in the graph is shown as T=0. From T=0 the graph should be viewed backwards in time (i.e. from right to left). For example: 10 on the graph, is 10 days prior to the extraction date.



Personal result:

During a period of 90 days prior to your hair extraction, the platinum levels in your hair are significantly higher than our scientifically determined population average. This indicates that your silicone implants are probably no longer completely intact. In case you do not have breast implants in your body, your readouts indicate that there is (still) significant platinum content in your hair.

We advise you to visit or consult a medical expert.

** The population average is based on the average platinum levels found in the hairs of 55 women without breast implants.*

Platinum Screen

Project details

Customer: Firstname Lastname
Address: Street 1
1234 AB City
The Netherlands

Service provider: Hair Diagnostix
Contact Person: Cyrille Depondt
Phone number: +31 (0) 43 302 27 22
Email: support@hairdiagnostix.com
Address: Gaetano Martinolaan 63A
6229 GS Maastricht
The Netherlands

Project description: Platinum Screen
Reference number: VBK-XVZ-X59
Hair extraction date: 15-01-2021
Hair extraction performed by: Customer
Date of receipt: 20-01-2021

Project scope: The client requests Hair Diagnostix to perform a compositional measurement on hair samples delivered for a specific screening of platinum. Platinum in hair could be a marker of gel bleeding or rupture of body implants, for example breast implants or joint implants.

Analysis technology: LA-ICP-MS - Information about the method can be found at www.hairdiagnostix.com
Analysis date: 29-01-2021
SOP used: SOP-L0008a
Additional remarks: -

Disclaimer

Hair Growth

The Society of Hair Testing has established that on average, scalp hair grows 1 centimetre per month. The time indication given in the graphs is an accurate estimation, based on a well-founded assessment, established for the average growth of a scalp hair pulled out at the crown. It is important to consider that other external factors can influence hair growth such as seasonality, hormonal changes, stress levels and certain conditions.

Substance incorporation

The incorporation of certain molecules and/or elements into the hair might differ between individuals depending on numerous inherent variations, including ethnicity, hair growth/characteristics and metabolism.

Platinum background levels

Background levels of platinum can be found in the general environment. Food components, water, medication, medical implants, and exhaust-derived pollutants can be major sources of basal platinum exposure. A baseline has been scientifically established using a control population of 55 women, which represents an estimate of the background exposure. However, depending on one's lifestyle and occupational demands, these levels might vary.

Platinum clearance

Kidneys are the organ most responsible for excreting platinum. Kidney function is known to decline with age and this might have an effect on the circulating levels of platinum and thus the propensity of it being incorporated into hair. This was taken into account on our baseline establishment by ensuring population diversity.