Nordic	Laboratories

PATIENT: Sam	ple Report
TEST NUMBER:	#########
PATIENT NUMBER:	##########
GENDER:	Female
AGE:	36
DATE OF BIRTH:	dd-mm-yyyy

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ST REF: ###-##-######

ITIONER: Nordic Laboratories

# **TEST NAME: DUTCH Sex Hormone Metabolites**

Test		Result	Units	Luteal*	Postmenopausal
Progesterone Metabolites (Urine)				Range	Range
b-Pregnanediol	Low end of luteal range	620.0	ng/mg	600 - 2000	60-200
a-Pregnanediol	Low end of luteal range	202.0	ng/mg	200 - 740	15-50
Estrogen Metabo	olites (Urine)				
Estrone(E1)	Below luteal range	11.6	ng/mg	12 - 26	3.0-7.0
Estradiol(E2)	Low end of luteal range	2.15	ng/mg	1.8 - 4.5	0.2-0.7
Estriol(E3)	Above luteal range	46.0	ng/mg	5 - 18	0.6-4.0
2-OH-E1	Below luteal range	3.58	ng/mg	5.1 - 13.1	0.3-2.0
4-OH-E1	Within luteal range	0.92	ng/mg	0 - 1.8	0-0.3
16-OH-E1	Above luteal range	5.88	ng/mg	0.7 - 2.6	0.2-0.6
2-Methoxy-E1	Below luteal range	1.46	ng/mg	2.5 - 6.5	0.3-1.4
2-OH-E2	Within luteal range	0.34	ng/mg	0 - 1.2	0-0.3
4-OH-E2	Below luteal range	0.10	ng/mg	0.15 - 0.5	0-0.1
2-Methoxy-E2	Below luteal range	0.2	ng/mg	0.3 - 0.7	0-0.4
Androgen Metab	olites (Urine)				
DHEA-S	Low end of range	28.0	ng/mg	20 - 750	
Androsterone	Low end of range	481.0	ng/mg	200 - 1650	
Etiocholanolone	Low end of range	265.0	ng/mg	200 - 1000	
Testosterone	Low end of range	2.4	ng/mg	2.3 - 14	
5a-DHT	Low end of range	1.2	ng/mg	0 - 6.6	
5a-Androstanediol	Below range	10.5	ng/mg	12 - 30	
5b-Androstanediol	Below range	9.6	ng/mg	20 - 75	
Epi-Testosterone	Within range	6.8	ng/mg	2.3 - 14	

\*the Lutea Range s the premenopausa range. When pat ents are tak ng ora progesterone th s range for progesterone metabo tes s not utea and reflects the h gher eve s expected when pat ents take ora progesterone. Th s test s ntended to be taken n the utea phase of the menstrua cyc e (days 19-22 of a 28 day cyc e) for premenopausa women. The ranges n the tab e be ow may be used when samp es are taken dur ng the first few days (fo cu ar) of the cyc e, dur ng ovu at on (days 11-14) or when pat ents are on ora progesterone. See the fo ow ng pages for age-dependent ranges for androgen metabo tes.

Additional Normal Ranges	Follicular	Ovulatory	Oral Pg (100mg)
b-Pregnanediol	100-300	100-300	2000-9000
a-Pregnanediol	25-100	25-100	580-3000
Estrone (E1)	4.0-12.0	22-68	N/A
Estradiol (E2)	1.0-2.0	4.0-12.0	N/A

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	dutch 🚺	AGE:	36				
	Dried Urine Test nr Comprehensive Hormones	DATE OF BIRTH:	dd-mm-yyyy				

# **TEST NAME: DUTCH Sex Hormone Metabolites**





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Dried Unite Test no Comprehensive Hormones	DATE OF BIRTH:	dd-mm-yyyy				

# **TEST NAME: DUTCH Sex Hormone Metabolites**

# **Provider Notes**

Low for Premenopausal

Normal for Postmenopausal

Nordic

#### How to read the DUTCH report

The graphic dutch dials in this report are intended for quick and easy evaluation of which hormones are out of range. Results below the left star are shaded yellow and are below range (left). Results between the stars and shaded green are within the reference range (middle). Results beyond the second star and shaded red are above the reference range (right). Some of these hormones also change with age, and the age-dependent ranges provided should also be considered.



Normal for Premenopausal High for Postmenopausal

High for Premenopausal High for Postmenopausal

In a few places on the graphical pages, you will see fan-style gauges. For sex hormones, you will see one for the balance between 5a/5b metabolism as well as methylation. For adrenal hormones, you will see one to represent the balance between cortisol and cortisone metabolites. These indexes simply look at the ratio of hormones for a preference. An average or "normal" ratio between the two metabolites (or groups of metabolites) will give a result in the middle (as shown here). If the ratio between the metabolites measured is "low" the gauge will lean to the left and similarly to the right if the ratio is higher than normal.

#### **Patient or Sample Comments**

Throughout the provider comments you may find some comments specific to your situation or results. These comments will be found in this section or within another section as appropriate. Comments in other sections that are specific to your case will be in **bold**.

The patient reports no menstrual cycles.

The patient reports significant symptoms of estrogen deficiency.

The patient reports significant symptoms of androgen deficiency.

#### **Progesterone Metabolism**

The primary role of progesterone is to balance the strong effects of estrogen. Progesterone metabolites are measured and reflect progesterone levels well because very little progesterone is found in urine, so b-Pregnanediol is typically used as a surrogate marker because it is the most abundant metabolite, but we also test the corresponding a-pregnanediol. The average of the two metabolites is reported for progesterone. If levels are in the lower part of the reference range compared

to estrogen levels, symptoms of too much estrogen may occur. When ordering the DUTCH Complete, you will see Progesterone Serum Equivalent on the summary page 1. The urine metabolites of progesterone have been proven to correlate strongly enough to serum progesterone to provide this value. The correlation is the strongest for values within the premenopausal luteal range. Urine metabolites can at times result in somewhat higher serum equivalent results in the postmenopausal range. For this reason the postmenopausal Serum Equivalent range is slightly higher than typical serum ranges. NOTE: If progesterone is taken orally (also with sublingual), these metabolites are elevated from gut metabolism and results do NOT accurately reflect serum levels.

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PATIENT: Samp	ole Rep	ort
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PATIENT NUMBER: ##########

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dd-mm-yyyy

Female

36

TEST NUMBER

DATE OF BIRTH:

GENDER:

AGE

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COLLECTED: dd/mm/yyyy PRACTITIONER: dd/mm/yyyy dd/mm/yyyy

# ADDRESS

# **TEST NAME: DUTCH Sex Hormone Metabolites**

#### Estrogen Metabolism

RECEIVED:

TESTED:

When evaluating estrogen levels, it is important to assess the following:

• The status (low, normal or high?) of estrogen production:

Levels of the primary ovarian product, estradiol (the strongest estrogen), as well as "total estrogens" may be considered. For women not on HRT, consider the appropriate range (premenopausal or postmenopausal).

#### Phase I Metabolism:

Estrogen is metabolized (primarily by the liver) down three phase I pathways. The 2-OH pathway is considered the safest because of the anti-cancer properties of 2-OH metabolites. Conversely, the 4-OH pathway is considered the most genotoxic as its metabolites can create reactive products that damage DNA. The third pathway, 16-OH creates the most estrogenic of the metabolites (although still considerably less estrogenic than estradiol) - 16-OH-E1. If overall estrogen levels are high, production of 16-OH-E1 may exacerbate high estrogen symptoms. Similarly, a woman with very low levels of estrogens, may have less low estrogen symptoms if 16-OH metabolism is preferred. For example Armamento-Villareal showed that a higher 2-OH-E1/16-OH-E1 ratio correlated to bone loss (a low estrogen symptom). Estriol is thought of as a safer (weaker) estrogen metabolite, but it is important to remember that estriol is actually 16-OH-E2, so generally patients that make a lot of the potentially protective/weak estriol may also make a lot of the estrogenic 16-OH-E1.

When evaluating phase I metabolism, it may be important to look at the ratios of the three metabolites to see which pathways are preferred relative to one another. It may also be important to compare these metabolites to the levels of the parent hormones (E1, E2). If the ratios of the three metabolites are favorable but overall levels of metabolites are much lower than E1 and E2, this may imply sluggish phase I clearance of estrogens, which can contribute to high levels of E1 and E2. Similarly, patients with excessive phase I metabolism may have low E1 and E2 levels because of high rates of clearance (as opposed to simply not making a lot of estrogen).

The pie chart will assist you in comparing the three pathway options of phase I metabolism compared to what is "normal." 2-OH metabolism can be increased by using products containing D.I.M. or I-3-C. These compounds are found (or created from) in cruciferous vegetables and are known for promoting this pathway.

Patients typically metabolize a much higher percentage of their estrogens down the more protective 2-OH pathway in phase 1 detoxification. Diindolylmethane (DIM) or Indole-3-Carbinol containing products can help move estrogens more efficiently down this pathway. Be aware that this typically lowers most of the other estrogens, including E1 and E2 as well. If the patients are taking or considering hormone replacement therapy, these products may be considered but a higher dose of estrogen may be needed for the same clinical effect if taken at the same time.

#### Methylation (part of phase II metabolism) of estrogens:

After phase I metabolism, both 4-OH and 2-OH (not 16-OH) estrogens can be deactivated and eliminated by methylation. The methylation-activity index shows the patient's ratio of 2-Methoxy-E1 / 2-OH-E1 compared to what is expected. Low methylation can be caused by low levels of nutrients needed for methylation and/or genetic abnormalities (COMT, MTHFR). The COMT enzyme responsible for methylation requires magnesium and methyl donors. Deficiencies in folate or vitamin B6 or B12 can cause low levels of methyl donors. MTHFR genetic defects can make it more difficult for patients to make sufficient methyl donors. Genetic defects in COMT can make methylation poor even in the presence of adequate methyl donors.

#### Androgen Metabolism

### When evaluating androgen levels, it is important to assess the following:

The status (low, normal or high?) of DHEA:

DHEA and androstenedione are made almost exclusively by the adrenal gland (although a smaller amount is made in the ovaries). These hormones appear in urine as DHEA-S (DHEA-Sulfate), androsterone and etiocholanolone. The best way to assess the total production of DHEA is to add up these three metabolites. This total can be seen on the first page of the DUTCH Complete (and DUTCH Plus). DHEA production decreases quite significantly with age. Age-dependent ranges can be seen on the graphical page of results.

# The Total DHEA Production (page 1) was about 774ng/mg which is within the overall range but is below the range for the patient's age-dependent range. This implies that the adrenal glands are not producing appropriate DHEA levels for the patient's age. Patients with low DHEA production often experience fatigue, low mood or low libido.

#### • The status (low, normal or high?) of testosterone:

Females make most of their DHEA in the adrenal gland and a fraction of that DHEA trickles down metabolically to testosterone. For premenopausal women, some testosterone is also made by the ovaries. Levels of testosterone do drop somewhat with age, but not to the degree that DHEA decreases.

Testosterone levels for this patient were approximately 2.40ng/mg, which is within range, but is below "normal" levels for a young, healthy woman. You may want to also carefully evaluate 5a-metabolism (see below) and testosterone's downstream metabolites, 5a-androstanediol and 5b-androstanediol on page 2 of the DUTCH Plus or DUTCH Complete. They are on page 1 of a DUTCH Sex Hormone. These two metabolites generally parallel testosterone production, although they can also be generated from DHEA without going through testosterone. If all markers are on the lower end of the range and she reports low androgen symptoms, you may want to consider testosterone HRT or symptomatic support with Zinc, Maca, Tribulus or Shatavari.

#### The metabolic preference for the 5a (5-alpha) or 5b (5-beta) pathway:

5a-reductase converts testosterone into 5a-DHT (DHT), which is even more potent ( $\sim$ 3x) than testosterone. High levels of DHT can lead to symptoms associated with too much testosterone. Metabolites created down the 5b-pathway are

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		PATIENT: Sam	ple Report			TEST REF: ##	#-##-####
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	dutch 🚺	AGE:	36				
	Dried Urine Test nu Comprehensive Hormones	DATE OF BIRTH:	dd-mm-yyyy				

# TEST NAME: DUTCH Sex Hormone Metabolites

significantly less androgenic than their 5a counterparts. In the examples below, the example on the left shows a patient with 5b-metabolism preference. A patient with a pattern like the example on the right may have high androgen symptoms even though the hormones are in the normal range because of the likely preference for turning a lot of her testosterone into DHT. The fan-style gauge below the hormones shows the 5a or 5b preference based on etiocholanolone (5b) and androsterone (5a) results. Progesterone metabolites are also metabolized by 5a and 5b enzymes and the balance between its two metabolites can be useful to confirm a 5a or 5b preference.

Example of how to read fan-style gauge for 5a-reductase activity:



It is important to consider DHEA and testosterone production, 5a-metabolism patterns as well as the patient symptoms. For example, a woman with higher levels of DHEA and testosterone will often have high androgen symptoms (facial hair, thinning scalp hair, etc.) exacerbated by 5a-metabolism. If, on the other hand, she prefers 5b-metabolism she may not express high androgen symptoms in spite of higher levels of testosterone because 5b is the less androgenic pathway. Testosterone levels may be better understood by also considering its downstream metabolites (5a-androstanediol, 5bandrostanediol). Technically, these metabolites can also be formed from DHEA metabolites without going through the testosterone pathway, but they generally tend to correlate with testosterone production.

You will also see levels of epi-testosterone, which is not androgenic like testosterone. It happens to be produced in about the same concentrations as testosterone (this is an approximate relationship). This can be helpful to assess testosterone therapy and rare cases where testosterone may have other complexities

Urine Hormone Testing - General Information What is actually measured in urine? In blood, most hormones are bound to binding proteins. A small fraction of the total hormone levels are "free" and unbound such that they are active hormones. These free hormones are not found readily in urine except for cortisol and cortisone (because they are much more water soluble than, for example, testosterone). As such, free cortisol and cortisone can be measured in urine and it is this measurement that nearly all urinary cortisol research is based upon. In the DUTCH Adrenal Profile the diurnal patterns of free cortisol and cortisone are measured by LC-MS/MS.

All other hormones measured (cortisol metabolites, DHEA, and all sex hormones) are excreted in urine predominately after the addition of a glucuronide or sulfate group (to increase water solubility for excretion). As an example, Tajic (Natural Sciences, 1968 publication) found that of the testosterone found in urine, 57-80% was testosterone-glucuronide, 14-42% was testosterone-sulfate, and negligible amounts (<1% for most) was free testosterone. The most likely source of free sex hormones in urine is from contamination from hormonal supplements. To eliminate this potential, we remove free hormones from conjugates (our testing can be used even if vaginal hormones have been given). The glucuronides and sulfates are then broken off of the parent hormones, and the measurement is made. These measurements reflect the bioavailable amount of hormone in most cases as it is only the free, nonprotein-bound fraction in blood/tissue that is available for phase II metabolism (glucuronidation and sulfation) and subsequent urine excretion.

Disclaimer: the filter paper used for sample collection is designed for blood collection, so it is technically considered "research only" for urine collection. Its proper use for urine collection has been thoroughly validated.

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# PATIENT: Sample Report



TEST NUMBER:	##########
PATIENT NUMBER:	##########
GENDER:	Female
AGE:	36
DATE OF BIRTH:	dd-mm-yyyy

COLLECTED:	dd/mm/yyyy
RECEIVED:	dd/mm/yyyy
TESTED:	dd/mm/yyyy

TEST REF: ###-##-#####

PRACTITIONER: Nordic Laboratories

dd/mm/yyyy ADDRESS:

# **TEST NAME: DUTCH Sex Hormone Metabolites**

#### Reference Range Determination and Updates (11.15.2017)

We aim to make the reference ranges for our DUTCH tests as clinically appropriate and useful as possible. This includes the testing of thousands of healthy individuals and combing through the data to exclude those that are not considered "healthy" or "normal" with respect to a particular hormone. As an example, we only use a premenopausal woman's data for estrogen range determination if the associated progesterone result is within the luteal range (days 19-21 when progesterone should be at its peak). We exclude women on birth control or with any conditions that may be related to estrogen production. Over time the database of results for reference ranges has grown quite large. This has allowed us to refine some of the ranges to optimize for clinical utility. The manner in which a metabolite's range is determined can be different depending on the nature of the metabolite. For example, it would not make clinical sense to tell a patient they are deficient in the carcinogenic estrogen metabolite, 4-OH-E1 therefore the lower range limit for this metabolite is set to zero for both men and women. Modestly elevated testosterone is associated with unwanted symptoms in women more so than in men, so the high range limit is set at the 80th percentile in women and the 90th percentile for men. Note: the 90th percentile is defined as a result higher than 90% (9 out of 10) of a healthy population.

Classic reference ranges for disease determination are usually calculated by determining the average value and adding and subtracting two standard deviations from the average, which defines 95% of the population as being "normal." When testing cortisol, for example, these types of two standard deviation ranges are effective for determining if a patient might have Addison's (very low cortisol) or Cushing's (very high cortisol) Disease. Our ranges are set more tightly to be optimally used for Functional Medicine practices.

Below you will find a description of the range for each test along with any updates (as of 11.15.2017). Some of the ranges that have changed as of 11.15.2017 represent a fine tuning of ranges following review using a new, expanded data set. Most of the changes are due to the implementation of new age-dependent ranges or changes to the population percentile used for a range limit. For example, after reviewing clinical data, we have decided to change the range limit for DHEA-S from the 80th to the 90th percentile to account for the broader range of data seen for DHEA-S compared to other DHEA metabolites.

FEMALE RANGES	Referen	ce Ranges	prior to 11	.15.2017	Nev	w ranges as	of 11.15.2	017
	Low%	High%	Low	High	Low%	High%	Low	High
b-Pregnanediol	20%	90%	450	2300	20%	90%	600	2000
a-Pregnanediol	20%	90%	120	740	20%	90%	200	740
Estrone	20%	80%	12	26	20%	80%	12	26
Estradiol	20%	80%	1.8	4.5	20%	80%	1.8	4.5
Estriol	20%	80%	5	18	20%	80%	5	18
2-OH-E1	20%	80%	4.6	14.4	20%	80%	5.1	13.1
4-OH-E1	0	80%	0	1.8	0	80%	0	1.8
16-OH-E1	20%	80%	1	3.5	20%	80%	0.7	2.6
2-Methoxy-E1	20%	80%	2	5.5	20%	80%	2.5	6.5
2-OH-E2	0	80%	0	1.2	0	80%	0	1.2
DHEA-S	20%	80%	30	570	20%	90%	20	750
Androsterone	20%	80%	400	1700	20%	80%	200	1650
Etiocholanolone	20%	80%	260	950	20%	80%	200	1000
Testosterone	20%	80%	4	14	20%	80%	2.3	14
5a-DHT	20%	80%	0	8.8	20%	80%	0	6.6
5a-Androstanediol	20%	80%	12	30	20%	80%	12	30
5b-Androstanediol	20%	80%	20	75	20%	80%	20	75
Epi-Testosterone	20%	80%	4.5	22.3	20%	80%	2.3	14
a-THF	20%	90%	75	370	20%	90%	75	370
b-THF	20%	90%	1050	2500	20%	90%	1050	2500
b-THE	20%	90%	1550	3800	20%	90%	1550	3800
Cortisol A (waking)	20%	90%	12	55	20%	90%	12	55
Cortisol B (morning)	20%	90%	38	155	20%	90%	38	155
Cortisol C (~5pm)	20%	90%	7.3	30	20%	90%	7.3	30
Cortisol D (bed)	0	90%	0	14	0%	90%	0	14
Cortisone A (waking)	20%	90%	40	120	20%	90%	40	120
Cortisone B (morning)	20%	90%	90	230	20%	90%	90	230
Cortisone C (~5pm)	20%	90%	32	95	20%	90%	32	95
Cortisone D (bed)	0	90%	0	55	0	90%	0	55
Melatonin	20%	90%	10	85	20%	90%	10	85
8-OHdG	0	90%	0	5.2	0	90%	0	5.2
Calculated Values								
	0.001	0.00/	100		0.00/	0.001	500	

Total DHEA Production 20% 80% 400 3000 20% 80% 500 3000 Total Estrogens 20% 80% 27 62 20% 80% 35 70 Metabolized Cortisol 20% 90% 2750 6500 20% 90% 2750 6500 80 230 24hr Free Cortisol 20% 90% 20% 90% 80 230 24hr Free Cortisone 20% 90% 220 450 20% 90% 220 450 % = population percentile: Example - a high limit of 90% means results higher than 90% of the women tested

% = population percentile: Example - a high limit of 90% means results higher than 90% of the women tested for the reference range will be designated as "high."

Changed 11.15.2017

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Dried Urine Test nu Comprehensive Hormones	DATE OF BIRTH:	dd-mm-yyyy				

# **TEST NAME: DUTCH Sex Hormone Metabolites**

# **Provider Notes:**

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