Meridian Valley Lab

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PACE24™

Patient Name: DTC SAMPLE
Accession Number: 1446371
Date of Birth: 1/10/1952 Age: 74 Sex: F

Sample Number: 26-296-972
Total Volume: 4,000 mL

Test: 4018
Date Analyzed: 10/26/2026

DIRECT-TO-CONSUMER REPORT | DESIGN PROTOTYPE · NOT FOR CLINICAL USE

Estrogens and estrogen metabolites

Analyte	Result	Female 20-29	Female 70-79
Estrone (E1)	**24**	5th–95th	5th–95th >
Estrogen produced in reproductive and peripheral tissues.			
Estradiol (E2)	**5.4**	5th–95th	5th–95th >
A biologically active estrogen involved in reproductive and bone physiology.			
Estriol (E3)	**13**	5th–95th	5th–95th >
Estrogen with important roles during pregnancy and in estrogen metabolism.			
Total estrogens (E1+E2+E3)	**42.4**	5th–95th	5th–95th >
Sum of the three measured estrogens; calculated from reported results.			
2-Hydroxyestrone	**4.9**	5th–95th	5th–95th
Estrogen metabolite formed through the 2-hydroxylation pathway.			
16α-Hydroxyestrone	**3.1**	5th–95th	5th–95th >
Estrogen metabolite formed through the 16α-hydroxylation pathway.			
4-Hydroxyestrone	**1**	5th–95th	5th–95th
Estrogen metabolite formed through the 4-hydroxylation pathway.			
2-Methoxyestrone	**1.2**	No interval	5th–95th >
Methylated metabolite of 2-hydroxyestrone.			

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Estrogens and estrogen metabolites (continued)

Analyte	Result	Female 20-29	Female 70-79
4-Methoxyestrone	**ND**	No interval	5th–95th

Methylated metabolite of 4-hydroxyestrone; ND means not detected.

Estrogen ratios

Analyte	Result	Female 20-29	Female 70-79
2OH/16OH estrone ratio	**1.58**	5th–95th	5th–95th
E3/(E1+E2) ratio	**0.44**	5th–95th	5th–95th
E1/E2 ratio	**4.44**	No interval	No interval

Calculated ratio of two estrogen hydroxylation metabolites.

Calculated estriol output relative to estrone and estradiol.

Calculated ratio of urinary estrone to estradiol.

Progesterone metabolite

Analyte	Result	Female 20-29	Female 70-79
Pregnanediol (PD)	**1,606**	5th–95th	5th–95th >

A principal urinary metabolite of progesterone.

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Androgens and androgen metabolites

Analyte	Result	Female 20-29	Female 70-79
Testosterone An androgen involved in muscle, bone, and other functions.	**2.3**	< 5th–95th	5th–95th
Dihydrotestosterone (DHT) A potent androgen formed from testosterone.	**1**	No interval	No interval
DHEA Adrenal steroid precursor involved in androgen and estrogen synthesis.	**4.8**	5th–95th	5th–95th
7-keto DHEA A downstream metabolite of DHEA.	**0.5**	5th–95th	5th–95th
Androstenedione Steroid precursor involved in androgen and estrogen synthesis.	**1.1**	No interval	No interval
Androstanediol Androgen metabolite associated with testosterone and DHT metabolism.	**38**	5th–95th	5th–95th
Androsterone (AN) Predominantly 5α-reduced androgen metabolite.	**355**	5th–95th	5th–95th
Etiocholanolone (ET) Predominantly 5β-reduced androgen metabolite.	**247**	< 5th–95th	5th–95th

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Androgens and androgen metabolites (continued)

Analyte	Result	Female 20-29	Female 70-79
Androstenetriol (5-AT)	**17**	5th–95th	5th–95th
Metabolite associated with androgen steroid pathways.			
5-Pregnenetriol (5-PT)	**91**	5th–95th	5th–95th
Urinary metabolite of steroid precursors.			
11β-OH-Androsterone (OHAN)	**510**	5th–95th	5th–95th
An 11-oxygenated androgen metabolite.			
11β-OH-Etiocholanolone (OHET)	**372**	5th–95th	5th–95th
An 11-oxygenated androgen metabolite.			

Corticosteroids and metabolites

Analyte	Result	Female 20-29	Female 70-79
Cortisol (F)	**29**	5th–95th	5th–95th
Glucocorticoid involved in metabolic and stress responses.			
Cortisone (E)	**53**	5th–95th	5th–95th
Less active glucocorticoid that interconverts with cortisol.			
THF	**1,323**	5th–95th	5th–95th
Tetrahydrocortisol, a reduced cortisol metabolite.			

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Corticosteroids and metabolites (continued)

Analyte	Result	Female 20-29	Female 70-79
5α-THF	**1,289**	5th–95th	5th–95th
Allo-tetrahydrocortisol, a 5α-reduced cortisol metabolite.			
THE	**3,182**	5th–95th	5th–95th
Tetrahydrocortisone, a reduced cortisone metabolite.			
THE + THF + 5α-THF	**5,794**	5th–95th	5th–95th
Calculated sum of three major urinary corticosteroid metabolites.			
THA	**43**	5th–95th	5th–95th
Tetrahydro-11-dehydrocorticosterone metabolite.			
THB	**56**	5th–95th	5th–95th
Tetrahydrocorticosterone metabolite.			
5α-THB	**209**	5th–95th	5th–95th
A 5α-reduced tetrahydrocorticosterone metabolite.			

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Calculated ratios

Analyte	Result	Female 20-29	Female 70-79
Cortisone/Cortisol (E/F)	**1.83**	5th – 95th	5th – 95th
Calculated urinary cortisone-to-cortisol ratio.			
AN/ET ratio	**1.44**	No interval	No interval
Calculated ratio of 5α- and 5β-reduced androgen metabolites.			
5α-THF/THF ratio	**0.97**	No interval	No interval
Calculated ratio of two reduced cortisol metabolites.			

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How to read your report

Each result is compared with two female populations: normally cycling young adults ages 20-29, and an age-matched population ages 70-79. Neither comparison is intended to include hormone replacement therapy.

The gold band shows estimated 5th and 95th percentile boundaries, converted from supplied mean +/-2 SD limits under an approximately normal-distribution assumption. The teal diamond shows the patient's result relative to each population. Graphs are independently scaled, so diamond positions may differ.

The < or > symbol indicates a value beyond the displayed scale. ND means not detected, not necessarily zero. Where no population interval exists, the graph is omitted. A result outside the gold band is not by itself a diagnosis.

Why compare two populations?

The young-adult population provides a common physiologic comparison. The age-matched population shows how the patient's measurements compare with women of a similar age. Neither population defines an optimal hormone concentration or a treatment target.

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Important limitations and consumer disclaimer

What PACE24 measures

This test measures selected hormones and metabolites excreted during a 24-hour urine collection. Urinary output does not directly equal blood hormone concentration, hormone production, or tissue activity.

Population and statistical assumptions

The 5th-95th percentile bands are estimated mathematically from supplied +/-2 SD endpoints. Hormone distributions may be skewed, and cohort criteria and distributional assumptions require laboratory verification.

Clinical meaning

A value outside the middle 90% of a population does not establish disease; a value inside does not establish health. Young-adult comparison is not a target for older patients or a recommendation for hormone replacement.

Influences on results

Menstrual and menopausal status, medications, hormone therapy, renal function, collection completeness, specimen volume, illness, and physiologic variation can influence results.

Calculations and nondetects

Ratios depend on component values and do not independently measure enzyme activity. ND means the assay did not detect the compound at its relevant detection or reporting threshold.

Medical decisions

This educational report is not a diagnosis or recommendation to start, stop, or adjust treatment. A qualified clinician should interpret findings with symptoms, history, and other testing.