

PRECISION ANALYTICAL DUTCH TEST

PRECISION ANALYTICAL DUTCH TEST IS AN ADVANCED HORMONE TESTING METHOD THAT PROVIDES COMPREHENSIVE INSIGHTS INTO ENDOCRINE HEALTH BY MEASURING HORMONE METABOLITES IN URINE. THIS TEST HAS GAINED PROMINENCE FOR ITS ACCURACY AND DETAILED ANALYSIS OF STEROID HORMONES, INCLUDING CORTISOL, ESTROGEN, PROGESTERONE, AND TESTOSTERONE. UNLIKE TRADITIONAL BLOOD OR SALIVA TESTS, THE PRECISION ANALYTICAL DUTCH TEST OFFERS A HOLISTIC VIEW OF HORMONE FUNCTION, METABOLISM, AND BALANCE THROUGHOUT THE DAY. THIS ARTICLE EXPLORES THE SCIENCE BEHIND THE TEST, ITS BENEFITS, HOW TO INTERPRET RESULTS, AND ITS APPLICATIONS IN CLINICAL AND WELLNESS SETTINGS. HEALTHCARE PROFESSIONALS AND PATIENTS ALIKE INCREASINGLY RELY ON THIS TEST FOR DIAGNOSING HORMONAL IMBALANCES, MONITORING THERAPY, AND PERSONALIZING TREATMENT PLANS. BELOW IS AN OUTLINE OF THE TOPICS COVERED IN THIS COMPREHENSIVE GUIDE.

- OVERVIEW OF THE PRECISION ANALYTICAL DUTCH TEST
- HOW THE DUTCH TEST WORKS
- KEY HORMONES MEASURED IN THE DUTCH TEST
- BENEFITS OF USING THE PRECISION ANALYTICAL DUTCH TEST
- INTERPRETING DUTCH TEST RESULTS
- CLINICAL APPLICATIONS AND USE CASES
- PREPARING FOR THE DUTCH TEST

OVERVIEW OF THE PRECISION ANALYTICAL DUTCH TEST

THE PRECISION ANALYTICAL DUTCH TEST, WHERE DUTCH STANDS FOR DRIED URINE TEST FOR COMPREHENSIVE HORMONES, IS A SOPHISTICATED DIAGNOSTIC TOOL THAT ASSESSES HORMONE LEVELS AND THEIR METABOLITES USING DRIED URINE SAMPLES COLLECTED OVER A 24-HOUR PERIOD. THIS METHOD OFFERS A NON-INVASIVE ALTERNATIVE TO BLOOD DRAWS AND CAPTURES FLUCTUATIONS IN HORMONE LEVELS THROUGHOUT THE DAY, PROVIDING A DYNAMIC HORMONE PROFILE RATHER THAN A SINGLE SNAPSHOT. THE TEST IS DEVELOPED BY PRECISION ANALYTICAL INC., A COMPANY SPECIALIZING IN HORMONE AND METABOLITE ANALYSIS. ITS COMPREHENSIVE NATURE ALLOWS FOR DETAILED EVALUATION OF ADRENAL, OVARIAN, TESTICULAR, AND THYROID HORMONE FUNCTION.

HISTORY AND DEVELOPMENT

THE DUTCH TEST WAS INTRODUCED TO ADDRESS LIMITATIONS FOUND IN CONVENTIONAL HORMONE TESTING, SUCH AS VARIABILITY IN SERUM LEVELS AND THE INABILITY TO MEASURE HORMONE METABOLITES EFFECTIVELY. BY EMPLOYING DRIED URINE SAMPLING COMBINED WITH ADVANCED LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY (LC-MS/MS) TECHNOLOGY, THE TEST ACHIEVES HIGH PRECISION AND SENSITIVITY. OVER THE YEARS, THE PRECISION ANALYTICAL DUTCH TEST HAS BECOME A TRUSTED RESOURCE FOR ENDOCRINOLOGISTS, NATUROPATHIC DOCTORS, AND INTEGRATIVE HEALTH PRACTITIONERS WORLDWIDE.

HOW THE DUTCH TEST WORKS

THE TEST REQUIRES PATIENTS TO COLLECT URINE SAMPLES ON SPECIALLY DESIGNED FILTER PAPER AT SPECIFIC TIMES THROUGHOUT THE DAY, TYPICALLY FOUR OR FIVE TIMES. THESE DRIED URINE SAMPLES ARE THEN MAILED TO THE LABORATORY FOR ANALYSIS. THE LAB USES LC-MS/MS TECHNOLOGY TO QUANTIFY HORMONE METABOLITES WITH EXCEPTIONAL ACCURACY.

THIS METHODOLOGY PROVIDES A DETAILED METABOLIC PROFILE OF HORMONE PRODUCTION, CLEARANCE, AND CONVERSION PATHWAYS.

SAMPLE COLLECTION AND PROCESSING

PATIENTS RECEIVE A KIT WITH INSTRUCTIONS TO COLLECT URINE SAMPLES AT DESIGNATED INTERVALS, OFTEN INCLUDING FIRST MORNING URINE AND SAMPLES COLLECTED AT VARIOUS TIMES TO CAPTURE CIRCADIAN HORMONE RHYTHMS. THE DRIED URINE SPOTS ARE STABLE AT ROOM TEMPERATURE, SIMPLIFYING SHIPPING AND STORAGE LOGISTICS. ONCE RECEIVED, THE LAB EXTRACTS THE ANALYTES FROM THE FILTER PAPER AND PERFORMS QUANTITATIVE ANALYSIS TO GENERATE HORMONE AND METABOLITE CONCENTRATIONS.

TECHNOLOGY BEHIND THE TEST

LIQUID CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY OFFERS HIGH SPECIFICITY BY SEPARATING MOLECULES BASED ON THEIR CHEMICAL PROPERTIES AND IDENTIFYING THEM THROUGH MASS-TO-CHARGE RATIOS. THIS ADVANCED TECHNOLOGY MINIMIZES CROSS-REACTIVITY AND INTERFERENCE THAT CAN AFFECT IMMUNOASSAY-BASED TESTS, ENSURING PRECISE MEASUREMENT OF EVEN LOW-ABUNDANCE METABOLITES.

KEY HORMONES MEASURED IN THE DUTCH TEST

THE PRECISION ANALYTICAL DUTCH TEST MEASURES A BROAD SPECTRUM OF STEROID HORMONES AND THEIR METABOLITES, PROVIDING INSIGHTS INTO ADRENAL, SEX, AND METABOLIC HORMONE SYSTEMS. THE COMPREHENSIVE PANEL INCLUDES CORTISOL, CORTISONE, DHEA, PROGESTERONE, ESTROGENS (ESTRADIOL, ESTRONE, ESTRIOL), TESTOSTERONE, AND THEIR DOWNSTREAM METABOLITES.

ADRENAL HORMONES

ASSESSMENT OF ADRENAL FUNCTION IS A CENTRAL ASPECT OF THE DUTCH TEST. IT MEASURES FREE CORTISOL AND CORTISONE LEVELS OVER THE DAY TO EVALUATE THE CIRCADIAN RHYTHM AND ADRENAL OUTPUT. METABOLITES SUCH AS TETRAHYDROCORTISOL (THF) AND TETRAHYDROCORTISONE (THE) HELP ASSESS CORTISOL METABOLISM AND CLEARANCE RATES, WHICH ARE CRUCIAL FOR UNDERSTANDING STRESS RESPONSE AND ADRENAL HEALTH.

SEX HORMONES AND METABOLITES

THE TEST QUANTIFIES PROGESTERONE, ESTROGENS, AND TESTOSTERONE, ALONG WITH THEIR KEY METABOLITES. THIS ALLOWS FOR EVALUATION OF HORMONE SYNTHESIS, METABOLISM, AND RECEPTOR ACTIVITY. FOR EXAMPLE, ESTROGEN METABOLITES SUCH AS 2-HYDROXYESTRONE AND 16-HYDROXYESTRONE PROVIDE INFORMATION ABOUT ESTROGEN METABOLISM PATHWAYS LINKED TO CANCER RISK AND DETOXIFICATION EFFICIENCY.

ADDITIONAL PARAMETERS

OTHER IMPORTANT ANALYTES INCLUDE MELATONIN AND CERTAIN ANDROGEN METABOLITES, WHICH CONTRIBUTE TO A FULLER PICTURE OF ENDOCRINE BALANCE. THE TEST ALSO EVALUATES MARKERS RELATED TO HORMONE CONJUGATION AND DETOXIFICATION, REFLECTING LIVER FUNCTION AND OVERALL METABOLIC HEALTH.

BENEFITS OF USING THE PRECISION ANALYTICAL DUTCH TEST

THERE ARE SEVERAL ADVANTAGES TO UTILIZING THE DUTCH TEST FOR HORMONE ANALYSIS COMPARED TO TRADITIONAL TESTING METHODS. ITS COMPREHENSIVE NATURE AND ADVANCED TECHNOLOGY IMPROVE DIAGNOSTIC ACCURACY AND PATIENT CONVENIENCE.

NON-INVASIVE AND CONVENIENT SAMPLING

USING DRIED URINE SPOTS IS LESS INVASIVE THAN BLOOD DRAWS AND SIMPLER THAN SALIVA COLLECTION, INCREASING PATIENT COMPLIANCE. THE ABILITY TO COLLECT MULTIPLE SAMPLES AT HOME DURING NORMAL DAILY ACTIVITIES CAPTURES NATURAL HORMONE FLUCTUATIONS.

COMPREHENSIVE HORMONE PROFILE

THE TEST PROVIDES EXTENSIVE DATA ON HORMONE LEVELS, METABOLITES, AND CIRCADIAN RHYTHMS IN ONE COMPREHENSIVE PANEL, ENABLING MORE PRECISE CLINICAL INTERPRETATION. THIS HOLISTIC APPROACH AIDS IN IDENTIFYING SUBTLE IMBALANCES AND METABOLIC DYSFUNCTION.

SUPERIOR ANALYTICAL ACCURACY

LC-MS/MS TECHNOLOGY USED IN THE PRECISION ANALYTICAL DUTCH TEST REDUCES CROSS-REACTIVITY AND FALSE POSITIVES, RESULTING IN RELIABLE AND REPRODUCIBLE RESULTS THAT SUPPORT CONFIDENT CLINICAL DECISION-MAKING.

USEFUL FOR MONITORING THERAPY

THE DETAILED METABOLIC DATA ALLOW PRACTITIONERS TO TRACK CHANGES DURING HORMONE REPLACEMENT THERAPY, ADRENAL SUPPORT INTERVENTIONS, OR LIFESTYLE MODIFICATIONS, OPTIMIZING TREATMENT OUTCOMES.

INTERPRETING DUTCH TEST RESULTS

UNDERSTANDING THE RESULTS OF THE PRECISION ANALYTICAL DUTCH TEST REQUIRES KNOWLEDGE OF HORMONE PHYSIOLOGY, METABOLISM, AND THE CLINICAL CONTEXT. THE TEST REPORT TYPICALLY INCLUDES QUANTITATIVE VALUES, REFERENCE RANGES, AND INTERPRETIVE COMMENTS TO ASSIST HEALTHCARE PROVIDERS.

ADRENAL FUNCTION ASSESSMENT

PATTERNS OF CORTISOL AND CORTISONE PRODUCTION INDICATE ADRENAL HEALTH AND CIRCADIAN RHYTHM INTEGRITY. ELEVATED OR SUPPRESSED CORTISOL LEVELS, ABNORMAL METABOLITE RATIOS, OR DISRUPTED DAILY PATTERNS MAY SUGGEST ADRENAL FATIGUE, CUSHING'S SYNDROME, OR OTHER DISORDERS.

SEX HORMONE BALANCE

LEVELS OF PROGESTERONE, ESTROGENS, AND TESTOSTERONE AND THEIR METABOLITES REVEAL HORMONAL BALANCE, OVARIAN OR TESTICULAR FUNCTION, AND ESTROGEN METABOLISM PATHWAYS. THESE INSIGHTS AID IN DIAGNOSING CONDITIONS SUCH AS POLYCYSTIC OVARY SYNDROME (PCOS), MENOPAUSE, OR ANDROGEN EXCESS.

METABOLIC AND DETOXIFICATION INSIGHTS

ANALYSIS OF HORMONE METABOLITES PROVIDES CLUES ABOUT LIVER DETOXIFICATION EFFICIENCY AND POTENTIAL ESTROGEN DOMINANCE. ABNORMAL METABOLITE RATIOS CAN SIGNAL IMPAIRED PHASE 1 OR PHASE 2 METABOLISM, AFFECTING HORMONE CLEARANCE.

SAMPLE INTERPRETATION CHECKLIST

- REVIEW CORTISOL AND CORTISONE PATTERNS FOR CIRCADIAN RHYTHM ASSESSMENT
- EVALUATE HORMONE METABOLITE RATIOS FOR METABOLISM PATHWAY BALANCE
- COMPARE HORMONE LEVELS AGAINST REFERENCE RANGES AND SYMPTOMS
- CONSIDER LIFESTYLE, MEDICATIONS, AND CLINICAL HISTORY IN INTERPRETATION

CLINICAL APPLICATIONS AND USE CASES

THE PRECISION ANALYTICAL DUTCH TEST IS UTILIZED ACROSS A RANGE OF CLINICAL SCENARIOS TO ENHANCE DIAGNOSIS AND TAILOR TREATMENT PLANS. ITS COMPREHENSIVE HORMONE PROFILING SUPPORTS INTEGRATIVE AND FUNCTIONAL MEDICINE APPROACHES.

ENDOCRINE DISORDERS

DIAGNOSING ADRENAL INSUFFICIENCY, CUSHING'S SYNDROME, THYROID DYSFUNCTION, AND SEX HORMONE IMBALANCES IS FACILITATED BY THE DETAILED INFORMATION PROVIDED BY THE DUTCH TEST. IT HELPS DIFFERENTIATE BETWEEN PRIMARY AND SECONDARY CAUSES OF HORMONE ABNORMALITIES.

WOMEN'S HEALTH

THE TEST ASSISTS IN EVALUATING MENSTRUAL IRREGULARITIES, INFERTILITY, MENOPAUSE SYMPTOMS, AND HORMONE REPLACEMENT THERAPY EFFECTIVENESS BY OFFERING A NUANCED UNDERSTANDING OF ESTROGEN AND PROGESTERONE METABOLISM.

MEN'S HEALTH

TESTOSTERONE LEVELS AND METABOLISM ASSESSMENT AID IN DIAGNOSING HYPOGONADISM, ANDROGEN EXCESS, AND RELATED CONDITIONS. THE TEST ALSO MONITORS RESPONSE TO TESTOSTERONE REPLACEMENT THERAPY.

STRESS AND FATIGUE MANAGEMENT

BY MEASURING ADRENAL HORMONES AND THEIR METABOLITES THROUGHOUT THE DAY, PRACTITIONERS CAN BETTER UNDERSTAND THE IMPACT OF CHRONIC STRESS, ADRENAL FATIGUE, AND CIRCADIAN DISRUPTION ON OVERALL HEALTH.

PREPARING FOR THE DUTCH TEST

PROPER PREPARATION ENSURES ACCURATE AND MEANINGFUL RESULTS FROM THE PRECISION ANALYTICAL DUTCH TEST. PATIENTS SHOULD FOLLOW GUIDELINES PROVIDED BY THEIR HEALTHCARE PROVIDER TO OPTIMIZE SAMPLE QUALITY.

PRE-TEST INSTRUCTIONS

PATIENTS ARE TYPICALLY ADVISED TO AVOID EXCESSIVE EXERCISE, ALCOHOL, AND CERTAIN MEDICATIONS OR SUPPLEMENTS THAT MAY INFLUENCE HORMONE LEVELS DURING THE COLLECTION PERIOD. CONSISTENCY IN TIMING AND FOLLOWING THE SAMPLE COLLECTION SCHEDULE IS CRITICAL.

SAMPLE COLLECTION TIPS

USING THE PROVIDED KIT, PATIENTS SHOULD COLLECT URINE SPOTS ACCORDING TO INSTRUCTIONS, ALLOWING THE PAPER TO DRY COMPLETELY BEFORE PACKAGING. PROPER LABELING AND TIMELY SHIPMENT TO THE LABORATORY ARE ESSENTIAL TO MAINTAIN SAMPLE INTEGRITY.

FREQUENTLY ASKED QUESTIONS

WHAT IS THE PRECISION ANALYTICAL DUTCH TEST?

THE PRECISION ANALYTICAL DUTCH TEST (DRIED URINE TEST FOR COMPREHENSIVE HORMONES) IS A DIAGNOSTIC TOOL THAT MEASURES HORMONE LEVELS AND METABOLITES THROUGH DRIED URINE SAMPLES TO PROVIDE A COMPREHENSIVE OVERVIEW OF ADRENAL AND SEX HORMONE FUNCTION.

HOW DOES THE PRECISION ANALYTICAL DUTCH TEST DIFFER FROM TRADITIONAL BLOOD HORMONE TESTS?

UNLIKE TRADITIONAL BLOOD TESTS THAT MEASURE HORMONE LEVELS AT A SINGLE POINT IN TIME, THE DUTCH TEST ANALYZES HORMONE METABOLITES OVER A 24-HOUR PERIOD USING DRIED URINE, OFFERING A MORE DETAILED AND DYNAMIC ASSESSMENT OF HORMONE PRODUCTION, METABOLISM, AND CLEARANCE.

WHAT HORMONES ARE TYPICALLY MEASURED IN THE PRECISION ANALYTICAL DUTCH TEST?

THE DUTCH TEST MEASURES A RANGE OF HORMONES INCLUDING CORTISOL, CORTISONE, ESTROGEN, PROGESTERONE, TESTOSTERONE, DHEA, MELATONIN, AND THEIR METABOLITES, PROVIDING INSIGHTS INTO ADRENAL AND SEX HORMONE BALANCE.

WHO CAN BENEFIT FROM TAKING THE PRECISION ANALYTICAL DUTCH TEST?

INDIVIDUALS EXPERIENCING SYMPTOMS RELATED TO HORMONE IMBALANCES SUCH AS FATIGUE, MOOD DISORDERS, INFERTILITY, ADRENAL DYSFUNCTION, OR MENSTRUAL IRREGULARITIES CAN BENEFIT FROM THE DUTCH TEST TO HELP GUIDE PERSONALIZED TREATMENT PLANS.

HOW IS THE PRECISION ANALYTICAL DUTCH TEST SAMPLE COLLECTED?

THE SAMPLE COLLECTION INVOLVES COLLECTING URINE ON SPECIALIZED FILTER PAPER AT MULTIPLE TIMES THROUGHOUT THE DAY, WHICH IS THEN DRIED AND SENT TO THE LABORATORY FOR ANALYSIS, MAKING IT CONVENIENT AND NON-INVASIVE.

ADDITIONAL RESOURCES

1. *MASTERING THE PRECISION ANALYTICAL DUTCH TEST: A COMPREHENSIVE GUIDE*

THIS BOOK OFFERS AN IN-DEPTH OVERVIEW OF THE PRECISION ANALYTICAL DUTCH TEST, DETAILING THE METHODOLOGY, HORMONE MARKERS, AND INTERPRETATION STRATEGIES. IT IS DESIGNED FOR HEALTHCARE PRACTITIONERS AIMING TO ENHANCE THEIR DIAGNOSTIC SKILLS IN HORMONE ANALYSIS. THE GUIDE INCLUDES CASE STUDIES AND PRACTICAL TIPS FOR INTEGRATING TEST RESULTS INTO PERSONALIZED TREATMENT PLANS.

2. *HORMONE PROFILING WITH THE DUTCH TEST: TECHNIQUES AND APPLICATIONS*

FOCUSED ON THE TECHNICAL ASPECTS OF THE DUTCH TEST, THIS BOOK EXPLAINS THE SCIENCE BEHIND HORMONE METABOLITE MEASUREMENT THROUGH DRIED URINE SAMPLES. READERS WILL LEARN ABOUT THE BIOLOGICAL SIGNIFICANCE OF VARIOUS HORMONE METABOLITES, THE TEST'S ADVANTAGES OVER TRADITIONAL SERUM TESTING, AND CLINICAL APPLICATIONS FOR WOMEN'S AND MEN'S HEALTH.

3. *INTERPRETING DUTCH TEST RESULTS: A CLINICIAN'S HANDBOOK*

THIS HANDBOOK IS TAILORED FOR CLINICIANS AND LAB TECHNICIANS WHO NEED TO INTERPRET COMPLEX DUTCH TEST REPORTS ACCURATELY. IT PROVIDES DETAILED EXPLANATIONS OF KEY MARKERS, COMMON PATTERNS OBSERVED IN HORMONE IMBALANCES, AND TROUBLESHOOTING TIPS TO ENHANCE DIAGNOSTIC ACCURACY. THE BOOK ALSO COVERS HOW TO COMMUNICATE RESULTS EFFECTIVELY TO PATIENTS.

4. *ADVANCED ENDOCRINE TESTING: THE PRECISION ANALYTICAL DUTCH TEST IN PRACTICE*

AIMED AT ADVANCED PRACTITIONERS, THIS TEXT EXPLORES THE INTEGRATION OF THE DUTCH TEST WITHIN COMPREHENSIVE ENDOCRINE EVALUATIONS. IT DISCUSSES HOW TO COMBINE DUTCH TEST RESULTS WITH OTHER DIAGNOSTIC TOOLS TO CREATE HOLISTIC TREATMENT PLANS. THE BOOK EMPHASIZES THE TEST'S ROLE IN MANAGING CONDITIONS LIKE ADRENAL FATIGUE, PCOS, AND THYROID DISORDERS.

5. *PERSONALIZED HORMONE THERAPY GUIDED BY THE DUTCH TEST*

THIS BOOK FOCUSES ON USING DUTCH TEST DATA TO TAILOR HORMONE REPLACEMENT THERAPY AND NATURAL TREATMENT PROTOCOLS. IT COVERS HORMONE OPTIMIZATION, MONITORING TREATMENT EFFICACY, AND ADJUSTING THERAPIES BASED ON METABOLITE PATTERNS. CASE EXAMPLES ILLUSTRATE HOW PERSONALIZED APPROACHES IMPROVE PATIENT OUTCOMES.

6. *THE SCIENCE OF HORMONE METABOLITES: INSIGHTS FROM THE DUTCH TEST*

DELVING INTO THE BIOCHEMICAL PATHWAYS OF HORMONE METABOLISM, THIS BOOK EXPLAINS WHY MEASURING HORMONE METABOLITES PROVIDES A CLEARER PICTURE OF ENDOCRINE HEALTH. IT HIGHLIGHTS THE PRECISION ANALYTICAL DUTCH TEST'S INNOVATIVE APPROACH AND ITS CONTRIBUTION TO UNDERSTANDING HORMONE-RELATED DISORDERS AT A MOLECULAR LEVEL.

7. *IMPLEMENTING THE DUTCH TEST IN FUNCTIONAL MEDICINE*

DESIGNED FOR FUNCTIONAL MEDICINE PRACTITIONERS, THIS GUIDE SHOWS HOW TO INCORPORATE THE DUTCH TEST INTO PATIENT ASSESSMENTS. IT COVERS PATIENT SELECTION CRITERIA, INTERPRETING RESULTS WITHIN THE FUNCTIONAL MEDICINE FRAMEWORK, AND CREATING INTEGRATIVE TREATMENT STRATEGIES. THE BOOK ALSO ADDRESSES LIFESTYLE AND NUTRITIONAL INTERVENTIONS BASED ON TEST FINDINGS.

8. *CASE STUDIES IN PRECISION ANALYTICAL DUTCH TESTING*

THIS COLLECTION OF REAL-WORLD CASE STUDIES SHOWCASES THE PRACTICAL APPLICATION OF THE DUTCH TEST ACROSS VARIOUS CLINICAL SCENARIOS. EACH CASE HIGHLIGHTS DIAGNOSTIC CHALLENGES, INTERPRETATION NUANCES, AND TREATMENT OUTCOMES. THE BOOK SERVES AS A VALUABLE RESOURCE FOR CLINICIANS SEEKING TO DEEPEN THEIR UNDERSTANDING THROUGH EXPERIENTIAL LEARNING.

9. *OPTIMIZING WOMEN'S HEALTH WITH THE DUTCH TEST*

DEDICATED TO FEMALE HORMONE HEALTH, THIS BOOK EXPLORES HOW THE DUTCH TEST CAN IDENTIFY IMBALANCES RELATED TO MENSTRUAL IRREGULARITIES, MENOPAUSE, AND FERTILITY ISSUES. IT EXPLAINS THE SIGNIFICANCE OF ESTROGEN, PROGESTERONE, AND ADRENAL MARKERS IN WOMEN'S HEALTH. THE TEXT ALSO OFFERS GUIDANCE ON DESIGNING EFFECTIVE HORMONE-BALANCING THERAPIES INFORMED BY TEST RESULTS.

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