



# Noninvasive Testing Saliva, Stool, and Urine

*Adrenal Stress Index*

*Female Hormones*

*Male Hormones*

*Gastrointestinal Health*

*Food Sensitivity*

*Bone Health*

*Flexi-Matrix Custom Panels*

## **About DiagnosTechs™**

Established in 1987, DiagnosTechs Laboratory is considered the leading international salivary based testing and research laboratory. In 1989, DiagnosTechs was the first laboratory to introduce saliva hormone testing into routine clinical practice, creating a powerful tool for evaluating stress and hormone related disease and illness. In 1995, DiagnosTechs added saliva and stool based gastrointestinal and food sensitivity testing.

DiagnosTechs continues to refine and improve testing standards, using cutting edge technology and methods. DiagnosTechs tests are considered the platinum standard for salivary testing worldwide. In addition, DiagnosTechs offers other noninvasive laboratory testing such as stool testing for digestive health and urine testing for bone health.





## Adrenal Stress Index Panel (ASI)

The ASI was first introduced in 1989 to evaluate endocrine measures of stress, a contributing factor to morbidity and mortality. Since that time, several tests have been added to give more complete information regarding adrenal hormone metabolism, glycemic control, immune status, and gluten sensitivity. This comprehensive panel is an ideal evaluation for patients under chronic stress with known or suspected endocrine abnormalities.



### ASI Includes:

- TAP** Temporal Adrenal Profile (Cortisol Rhythm - Morning, Noon, Afternoon, Bedtime)\*
- DHEA** Dehydroepiandrosterone & Dehydroepiandrosterone sulfate (DHEA & DHEA-S)\*
- ISN** Fasting and Non-Fasting Insulin (2 measurements)\*
- P17-OH** 17-OH Progesterone\*
- FI-4** Gluten (gliadin) Ab, slgA\*
- MB2-S** Total salivary slgA\*



## Bone Health Panel (BHP)

Bone metabolism involves a continuous process of simultaneous deposition and breakdown. By providing measurements of six key hormones in saliva, as well as the bone metabolism marker Pyrilinks-D in urine, the BHP helps to evaluate and monitor patients at risk of developing osteoporosis.



### BHP Includes:

- DPD** Pyrilinks-D\*\*\* (deoxypyridinoline)
- DHEA** Dehydroepiandrosterone & Dehydroepiandrosterone sulfate (DHEA & DHEA-S)\*
- E2** Estradiol\*
- P1** Progesterone\*
- TTF** Testosterone\*
- CORT** Morning and Bedtime Cortisol (2 measurements)\*
- FSH** Follicle Stimulating Hormone (FSH)\*



## Calprotectin

Calprotectin is a highly abundant cytoplasmic protein present in granulocytes. Fecal calprotectin levels have a high sensitivity and specificity for differentiating between IBD and IBS. This test can help clinicians to determine whether invasive procedures such as endoscopy are warranted, and can help to monitor IBD treatment efficacy.



### CAL Includes:

- CAL** Calprotectin\*\*



## Cycling Female Hormone Panel (FHP)

The FHP is a dynamic mapping of the free-fraction levels of estradiol and progesterone throughout one menstrual cycle. This panel also includes cycle averages for free testosterone and DHEA & DHEA-S. Saliva samples are collected every 2-3 days over the monthly menstrual cycle. The expanded version of this panel (eFHP) also includes seven FSH and LH measurements around the time of ovulation without the need for additional collections. Both the FHP and eFHP provide valuable information on the dynamics of a woman's cycle at any age during the cycling years.



### FHP Includes:

- DHEA** Dehydroepiandrosterone & Dehydroepiandrosterone sulfate (DHEA & DHEA-S) (pooled value)\*
- TTF** Testosterone (pooled value)\*
- E2** Estradiol (x11)\*
- P1** Progesterone (x11)\*

### eFHP Includes all FHP tests plus:

- FSH** Follicle Stimulating Hormone (FSH) (x7)\*
- LH** Luteinizing Hormone (LH) (x7)\*



## Food Panel (FP)

Immune-mediated food sensitivities often present clinically as gastrointestinal symptoms, fatigue, and skin manifestations. In other cases, these reactions are clinically silent, although their long term effects may still be significant. The Food Panel (FP) measures antibodies to four common food allergens—gluten (gliadin), milk (casein), egg (ovalbumin), and soy (protein). It also includes a measurement of the total salivary slgA to provide context for interpreting the food specific slgA results.



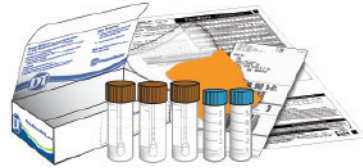
### FP Includes:

- FI-1** Milk (casein) Ab, slgA\*
- FI-2** Soy (protein) Ab, slgA\*
- FI-3** Egg (ovalbumin) Ab, slgA\*
- FI-4** Gluten (gliadin) Ab, slgA\*
- MB2-S** Total salivary slgA\*



**Gastrointestinal Health Panels (GI-1 & GI-2)**

The prevalence of gastrointestinal complaints in general practice is significant. Screening for many common GI issues can be achieved using the Gastrointestinal Health Panel. This is a 15- or 22-parameter analysis that noninvasively evaluates gastrointestinal function and health status using both stool and saliva specimens.



**GI-1 Includes:**

- CS1** Stool culture for yeast\*\*
- GP2** Ova and Parasites (x2)\*\*
- GP3** Bacterial stool culture, enteric pathogens\*\*
- GP3Cd** *Clostridium difficile* toxins A&B\*\*
- GP4** *Giardia lamblia* antigen\*\*
- GP5** *Cryptosporidium* antigen\*\*
- GP7-S** *Entamoeba histolytica* Ab, sIgA\*
- GP8-S** *Helicobacter pylori* Ab, IgG\*
- MB2** Total intestinal sIgA\*\*
- MB3** Lysozyme\*\*
- MB4** Alpha 1-antichymotrypsin\*\*
- FI-4** Gluten (gliadin) Ab, sIgA\*
- FG1** Chymotrypsin\*\*
- FG4** Occult Blood\*\*
- FG5** Fecal pH\*\*

**GI-2 Includes all GI-1 tests plus:**

- FI-1** Milk (casein) Ab, sIgA\*
- FI-2** Soy (protein) Ab, sIgA\*
- FI-3** Egg (ovalbumin) Ab, sIgA\*
- GP6-S** *Toxoplasma gondii* Ab, sIgA\*
- T-SOL** *Taenia solium* (tapeworm) Ab, sIgA\*
- ASC** *Ascaris lumbricoides* (roundworm) Ab, sIgA\*
- TRIC** *Trichinella spiralis* Ab, sIgA\*



**Male Hormone Panel (MHP)**

Many men experience an age-related decline in testosterone, frequently referred to as andropause. The MHP assesses testosterone and dihydrotestosterone (DHT); the precursor hormones progesterone, DHEA & DHEA-S, and androstenedione; and estrogens. The expanded version of this panel also measures the pituitary regulatory hormones FSH and LH.



**MHP Includes:**

- DHEA** Dehydroepiandrosterone & Dehydroepiandrosterone sulfate (DHEA & DHEA-S)\*
- AND** Androstenedione\*
- TTF** Testosterone\*
- DHT** Dihydrotestosterone\*
- E1** Estrone\*
- E2** Estradiol\*
- P1** Progesterone\*

**eMHP Includes all MHP tests plus:**

- FSH** Follicle Stimulating Hormone (FSH)\*
- LH** Luteinizing Hormone (LH)\*



**Peri and Post Menopause Hormone Panels (PeriM & PostM)**

The PeriM/PostM Panels, and their expanded versions (ePeriM/ePostM), provide measurements of six key hormones: progesterone, estradiol, estrone, estriol, testosterone, and DHEA & DHEA-S. The expanded panels also measure FSH and LH. Additionally, combining these panels with an ASI can provide a more complete assessment of the impact of stress on hormonal fluctuations in the end-of-cycle age groups.



**PeriM/PostM Includes:**

- DHEA** Dehydroepiandrosterone & Dehydroepiandrosterone sulfate (DHEA & DHEA-S)\*
- TTF** Testosterone\*
- E1** Estrone\*
- E2** Estradiol\*
- E3** Estriol\*
- P1** Progesterone\*

**ePeriM/ePostM**

**Includes all PeriM/PostM tests plus:**

- FSH** Follicle Stimulating Hormone (FSH)\*
- LH** Luteinizing Hormone (LH)\*

(Note: The PostM/ePostM panels involve a single collection, whereas the PeriM/ePeriM panels involve two collections, typically two weeks apart.)



**Flexi-Matrix™**

Flexi-Matrix™ allows you to combine more than one panel (except BHP, FHP/eFHP, PeriM/ePeriM, CHO, DCT, & TFP/TMP). Flexi-Matrix™ kits are the most economical way of customizing test panels and profiles to meet your clinical needs, saving you a 20-70% volume discount off individual test fees. See our test and fee schedule for more information.



# Individual Test Fees and CPT Codes

## Saliva Test List

		CPT Codes	Vials Needed
FSH	Follicle stimulating hormone	83001	Green F/L vial x 1
LH	Luteinizing hormone	83002	Green F/L vial x 1
TTF	Testosterone	84402	Blue H vial* x 1
AND	Androstenedione	82157	Blue H vial* x 1
DHT	Dihydrotestosterone	80327	Blue H vial* x 1
E1	Estrone	82679	Blue H vial* x 1
E2	Estradiol	82670	Blue H vial* x 1
E3	Estriol	82677	Blue H vial* x 1
P1	Progesterone	84144	Blue H vial* x 1
CORT	Cortisol, 6AM - 8AM	82530	Blue H or HC vial x 1
CORT	Cortisol, 11AM - 1PM	82530	Blue H or HC vial x 1
CORT	Cortisol, 4PM - 5PM	82530	Blue H or HC vial x 1
CORT	Cortisol, 10PM - midnight	82530	Blue H or HC vial x 1
CORT	Cortisol, other	82530	Blue H or HC vial x 1
P17-OH	17-OH Progesterone	83498	Blue H or HC vial x 1
DHEA	DHEA & DHEA-S	82626	Blue H vial* x 1
ISN	Insulin, fasting	83525	Blue H or HC vial x 1
ISN	Insulin, non-fasting	83525	Blue H or HC vial x 1
FI-1	Milk (casein) antibody, slgA	83516	Blue H vial x 1
FI-2	Soy (protein) antibody, slgA	83516	Blue H vial x 1
FI-3	Egg (ovalbumin) antibody, slgA	83516	Blue H vial x 1
FI-4	Gluten (gliadin) antibody, slgA	83516	Blue H vial x 1
MB2S	Total salivary slgA	83883	Blue H vial x 1
GP6S	<i>Toxoplasma gondii</i> antibody, slgA	86777	Blue HC or H vial x 1
GP7S	<i>Entamoeba histolytica</i> antibody, slgA	86753	Blue H vial x 1
GP8S	<i>Helicobacter pylori</i> antibody, IgG	86677	Blue H vial x 1
ASC	<i>Ascaris lumbricoides</i> (roundworm) antibody, slgA	86682	Blue H vial x 1
T-SOL	<i>Taenia solium</i> (Tapeworm) antibody, slgA	86318	Blue H vial x 1
TRIC	<i>Trichinella spiralis</i> antibody, slgA	86784	Blue HC or H vial x 1

## Stool Test List

GP1	Ova and parasites, one sample	87177 / 87209	Brown B vial x 1
GP2	Ova and parasites, two samples, pooled	87177 / 87209	Brown B vial x 2
GP4	<i>Giardia lamblia</i> antigen	87329	Brown B vial x 1
GP5	<i>Cryptosporidium</i> antigen	87328	Brown B vial x 1
CS1	Stool culture for yeast	87102 / 87106	Brown A vial x 1
GP3	Bacterial stool culture, enteric pathogens, including <i>Campylobacter</i> antigen, and Shiga toxin	87045 / 87046	Brown A vial x 1
GP3Cd	<i>Clostridium difficile</i> toxins A and B	87324	Brown B vial x 1
FG1	Chymotrypsin	84311	Brown A vial x 1
FG4	Occult blood	82270	Brown A vial x 1
FG5	Fecal pH	83986	Brown A vial x 1
MB2	Total intestinal slgA	83520	Brown A vial x 1
MB3	Lysozyme	85549	Brown A vial x 1
MB4	Alpha 1-antichymotrypsin	83520	Brown A vial x 1

## Other Tests (not included in Flexi-Matrix™ Panels)

DPD	Pyrilinks-D (urine)	82523	Green U
CS3	Swab culture for yeast, specify source	87102 / 87106	Swab x 1
CAL	Calprotectin (stool) - ordered as a stand alone test	83993	Brown A vial x 1
CAL	Calprotectin (stool) - added to a GI Health Panel	83993	Brown A vial x 1
GP2B	Ova and parasites, three samples (stool)	87177 / 87209	Brown B vial x 3
GP1G	Ova and parasites, gross exam, single sample (stool)	87177	Brown B vial x 1

\* or Green F/L vial