

# ESOTERIX UPDATE

A NEWSLETTER FOR CLIENTS

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## New Procedures

### ReproSURE (Ovarian Reserve Profile) ..... 502102

**Synonyms** AMH; Anti Mullerian Hormone; assisted reproductive technology; E2; eggs; Estradiol; fertility; FSH; infertility; oocytes; ovarian reserve assessment; reproductive

**Methodology**

Anti-Müllerian Hormone: Electrochemiluminescence

FSH: Electrochemiluminescence

Estradiol: LC-MS/MS

**Turnaround Time** 4 - 7 days

**CPT** 82397; 82670; 83001

**Performing Location** Endocrine Sciences

**Specimen** Serum

**Volume** 5 mL

**Minimum Volume** 2.3 mL (**Note:** This volume does **not** allow for repeat testing.)

**Container** Gel-barrier tube or red-top tube

**Collection** Allow a minimum clotting time of 30 to 60 minutes with serum separation within 2 hours of collection

**Causes for Rejection** Gross hemolysis; lipemia; icteric specimen

**Storage Instructions** Refrigerate

**Stability**

Refrigerated: 7 days

Frozen: 60 days

Freeze/thaw cycle: Stable x6

**Use** ReproSURE is a blood test comprised of Anti-Müllerian Hormone (AMH), Follicle Stimulating Hormone (FSH), and Estradiol designed to provide information about ovarian reserve. Ovarian reserve is a term used to describe a woman's reproductive potential, including the number of oocytes (eggs) she possesses.

1. ReproSURE is a blood test comprised of AMH, FSH and Estradiol hormones designed to provide information about ovarian reserve.
2. While no laboratory test can predict pregnancy, these ovarian reserve tests assess oocyte quantity and help predict ovarian response to stimulation in order to individualize fertility options

including assisted reproductive technology (ART) treatment.

3. Correct timing of blood collection is important. Serum specimen for ReproSURE testing should be collected on day 3 of your menstrual cycle. Day 2 or 4 collection may also be acceptable. FSH and estradiol levels rise and fluctuate after cycle day 3. If FSH and estradiol levels are higher than expected, you may wish to verify the cycle day of the blood collection.

4. These tests are not the sole criteria used to determine appropriateness of ART or any other treatment.

5. These tests do not evaluate egg quality. Egg quality peaks in a woman's twenties and then declines with age.

6. Antral follicle count (AFC) is another measure of egg supply that can be obtained by ultrasound observation.

**Limitations** Blood sample should be collected on day 3 of menstrual cycle as target ranges for ovarian assessment are based on day 3 concentrations.

**References**

Tal R, Seifer DB. Ovarian reserve testing: a user's guide. *Am J Obstet Gynecol.* 2017 Feb;1-12. doi:10.1016/j.ajog.2017.02.027. PubMed 28235465

Practice Committee of the American Society for Reproductive Medicine (ASRM). Testing and interpreting measures of ovarian reserve: a committee opinion. *Fertil Steril.* 2015 Mar;103(3):e9-e17. <http://dx.doi.org/10.1016/j.fernstert.2014.12.093>. PubMed 25585505

Zegers-Hochschild F, Adamson GD, Dyer S. et. Al. The International Glossary on Infertility and Fertility Care, 2017. *Fertil Steril.* July 2017;1-15. PubMed 28760517 10.1016/j.fernstert.2017.06.005

Leader B, Hegde A, Baca Q, et al. High frequency of discordance between antimullerian hormone and follicle stimulating hormone levels in serum from estradiol confirmed days 2 to 4 of the menstrual cycle from 5,354 women in U.S. fertility centers. *Fertil Steril.* 2012 Oct;98(4):1037-1042. PubMed 22771028 10.1016/j.fernstert.2012.06.006

## Updates to the Esoterix Test Menu

Test Name	Test No.	Change (Only fields that change are included here.)
<b>Direct Platelet Antibody</b>	<b>300386</b>	Effective November 8, 2017, this profile will no longer be available. As an alternative, LabCorp offers <b>Platelet Autoantibody Profile, Whole Blood (014102)</b> . Visit the Test Menu at <a href="http://www.labcorp.com">www.labcorp.com</a> for more details.
<b>Indirect Antiplatelet Alloantibody Panel</b>	<b>300520</b>	Effective November 8, 2017, this profile will no longer be available. As an alternative, LabCorp offers <b>Platelet Antibody Profile (117150)</b> . Visit the Test Menu at <a href="http://www.labcorp.com">www.labcorp.com</a> for more details.

For up-to-date test information, please consult the Esoterix Test Menu at [www.esoterix.com](http://www.esoterix.com). For additional information, call Esoterix client services at 800-444-9111.



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