



# Freiburg Medical Laboratory Middle East (L.L.C.)

P.O. Box: 3068, Dubai - UAE, Tel: 04 396 2227, Fax: 04 396 2228

E-mail: info@fml-dubai.com, Website: www.fml-dubai.com

## Physician:

Dr. M. Jaksch  
Freiburg Medical Lab

## Laboratory Report Online Version

Report Date: 10.07.2019

### Patient Name: Endocrinology sample report

Gender: Female  
Date of Birth: 01.01.1983  
Nationality:  
Your ID:

Test Request Code: 1944  
Sample ID:  
Patient IDNo: 380641

Sampling Date / Time: 10.07.2019 / 13:00  
Receipt Date / Time: 10.07.2019 / 14:40

### Remarks:

### Insurance:

Analysis	Result	Flag	Units	Reference Range
<b>Endocrinology (Serum)</b>				
<b>Estradiol (ECL)"</b>	<b>25.0</b>		pg/ml	see text
Follicular phase: 13.0 - 166.0 Ovulation phase: 86.0 - 498.0 Luteal phase: 44.0 - 211.0 Menopausal: 20.0 - 88.0 Pregnancy (1.Trim): 300 - 7000 (2.Trim): 1000 - 18000 (3.Trim): 4000 - 18000 Under ovarian stimulation: up to 4000				
<b>FSH (ECL)"</b>	<b>4.80</b>		mIU/ml	see text
Follicular: 3.5-12.5 Ovulation: 4.7-21.5 Luteal: 1.7-7.7 Menopausal: 25.8-134.8 Under treatment: according to dosage				
<b>LH (ECL)"</b>	<b>3.8</b>		mIU/ml	see text
Follicular: 2.4-12.6 Ovulation: 14.0-95.6 Luteal: 1.0-11.4 Menopausal: 7.7-58.5 Under treatment: according to dosage				
<b>Progesterone (ECL)"</b>	<b>0.29</b>		ng/ml	see text
Follicular: 0.057 - 0.893 Ovulation: 0.121 - 12.000				

#### Note:

Our reference values are adjusted to age and gender.  
Daily internal Quality Control within the required range  
(according to ISO 15189).

External Quality Control available on request.

^ non-accredited parameter

"This parameter is affected by Biotin intake of >5 mg  
(RDI = 0.03mg)

\* This investigation has been performed in a collaborating  
accredited laboratory (Germany).

Techn. Validation by  
Med. Technologist  
(Supervisor of  
the Department)

Dr. Nehmat EIBanna  
Specialist  
Clinical Pathology (U/S)  
(DHA-P-0084548)

PD Dr. med. habil. M. Jaksch  
Associate Professor  
Medical Director  
(DHA-LS-240710)

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Luteal: 1.83 - 23.90  
Menopausal: < 0.05 - 0.126

#### Pregnancy

1st Trimester: 11.0 - 44.3  
2nd Trimester: 25.4 - 83.3  
3rd Trimester: 58.7 - 214.0

<b>Prolactin (ECLIA)"</b>	<b>11.5</b>	ng/ml	4.8 - 23.3
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non pregnant: 4.8 - 23.3 ng/ml  
pregnant: 9.7 - 208.0 ng/ml

<b>Free T3 (ECL)"</b>	<b>2.50</b>	pg/ml	2.04 - 4.40
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<b>Free T4 (ECL)"</b>	<b>1.30</b>	ng/dl	0.93 - 1.70
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<b>TSH (ECL)"</b>	<b>3.80</b>	mIU/l	0.30 - 4.20
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#### Important note:

##### Revised TSH levels:

The American Association of Clinical Endocrinologists (AACE), www.aace.com and the American Thyroid Association (ATA), www.thyroid.org have released guidelines to lower the TSH reference range to 0.3 - 3.0 mIU/l in order to not miss any latent hypothyreosis. The discussion is still controversial, however Freiburg Medical Laboratory recommends to consider TSH levels from 3.0 - 4.2 mIU/l as greyzone (borderline increased TSH) and definitely elevated TSH levels >4.2 mIU/l.

#### TSH values in pregnancy:

First Trimester: 0.03 - 3.00 mIU/l  
Second Trimester: 0.10 - 3.00 mIU/l  
Third Trimester: 0.20 - 3.50 mIU/l

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### Analysis

Result

Flag

Units

Reference Range

(2.5th - 97.5th percentiles)

#### Source:

Guidelines of the American Thyroid Association for the Diagnosis and Management of Thyroid Disease During Pregnancy and Postpartum.

A. Stagnaro-Green et al. (2011) Thyroid 21:10;1081-1125

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