# Human Beta Nerve Growth Factor

## Procedures.

1. Standard preparation.

2. In the Micro Elisa strip plate, leave a well empty as blank control. Add 50 up standard in standard wells. In sample wells 40ul Sample and 10ul antibody, then add 50ul streptavidin - HRP to samples and standards wells.

3. Incubation: incubate 60 min at 37C after sealed with Closure plate membrane.

4. Dilution: dilute the concentrated washing buffer with distilled water (25 times).

5. Washing: carefully peel off Closure plate membrane, aspirate and refill with the wash solution. Discard the wash solution after resting for 30 seconds. Repeat the washing procedure 5 times.

6. Coloring: Add 50 ul Chromogen Solution A and 50 ul Chromogen Solution B to each well, mix gently shaking and incubate at 37C for 15 minutes. Please avoid light during coloring

7. Termination: add 50 µl stop solution to each well to terminate the reaction. The color in the well should change from blue to yellow.

8. Read absorbance O.D. at 450nm using a Micro titer Plate Reader. The OD value of the blank control well is set as zero. Assay should be carried out within 15 minutes after adding stop solution.

# Human Beta Nerve Growth Factor curve

| Standard | Absorbance | Concentration ng/L |
|---|---|---|
| S1 | 0.010 | 0 |
| S2 | 0.274 | 75 |
| S3 | 0.342 | 150 |
| S4 | 0.533 | 300 |
| S5 | 0.771 | 600 |
| S6 | 1.079 | 1200 |

# Human Brain -derived neurotrophic Factor

## Procedures.

1. Standard preparation.

2. In the Micro Elisa strip plate, leave a well empty as blank control. Add 50 up standard in standard wells. In sample wells 40ul Sample and 10ul antibody, then add 50ul streptavidin - HRP to samples and standards wells.

3. Incubation: incubate 60 min at 37C after sealed with Closure plate membrane.

4. Dilution: dilute the concentrated washing buffer with distilled water (25 times).

5. Washing: carefully peel off Closure plate membrane, aspirate and refill with the wash solution. Discard the wash solution after resting for 30 seconds. Repeat the washing procedure for 5 times.

6. Coloring: Add 50 ul Chromogen Solution A and 50 ul Chromogen Solution B to each well, mix with gently shaking and incubate at 37C for 15 minutes. Please avoid light during coloring

7. Termination: add 50 µl stop solution to each well to terminate the reaction. The color in the well should change from blue to yellow.

8. Read absorbance O.D. at 450nm using a Micro titer Plate Reader. The OD value of the blank control well is set as zero. Assay should be carried out within 15 minutes after adding stop solution.

# Human Brain -derived neurotrophic Factor curve

| Standard | Absorbance | Concentration ng/mL |
|---|---|---|
| S1 | 0.017 | 0 |
| S2 | 0.229 | 0.4 |
| S3 | 0.326 | 0.8 |
| S4 | 0.442 | 1.6 |
| S5 | 0.584 | 3.2 |
| S6 | 0.698 | 6.4 |

# Results

| Patient Name: | N.T.A | | | |
|---|---|---|---|---|
| Referred By: | | | | |
| Patient Number | Age | Sex | Visit Date | Report Date |
| 202306 | 52 Years | M | 1/1/2024 | 1/1/2024 |

Test Name: **Human Beta Nerve Growth Factor**

Sample Type: **Blood Sample/Plasma**

Sample Technique: **Fully Automated ELISA Reader**

| Results: | | Adults more than 18 Years<br>Ref. Range |
|---|---|---|
| | 1102 | 10-2000 ng/L |

*Signature*

*Dr/ Ahmed Saber*

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| Patient Name: | N.T.A | | | |
|---|---|---|---|---|
| Referred By: | | | | |
| Patient Number | Age | Sex | Visit Date | Report Date |
| 202306 | 52 Years | M | 1/1/2024 | 1/1/2024 |

Test Name: **Human Brain derived neurotrophic factor.**

Sample Type: **Blood Sample/Plasma**

Sample Technique: **Fully Automated ELISA Reader**

| | | Adults more than 18 Years |
|---|---|---|
| **Results:** | | **Ref. Range** |
| | **3.83** | 0.05-10 ng/ml |

*Signature*
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| Patient Name: | H.A.J | | | |
|---|---|---|---|---|
| Referred By: | | | | |
| Patient Number | Age | Sex | Visit Date | Report Date |
| 202306 | 44 Years | M | 3/1/2024 | 3/1/2024 |

Test Name: **Human Beta Nerve Growth Factor**

Sample Type: **Blood Sample/Plasma**

Sample Technique: **Fully Automated ELISA Reader**

| Results: | | Adults more than 18 Years<br>Ref. Range |
|---|---|---|
| | 912 | 10-2000 ng/L |

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| Patient Name: | H.A.J | | | |
|---|---|---|---|---|
| Referred By: | | | | |
| Patient Number | Age | Sex | Visit Date | Report Date |
| 202306 | 44 Years | M | 3/1/2024 | 3/1/2024 |

Test Name: **Human Brain derived neurotrophic factor.**

Sample Type: **Blood Sample/Plasma**

Sample Technique: **Fully Automated ELISA Reader**

| | | Adults more than 18 Years |
|---|---|---|
| **Results:** | | **Ref. Range** |
| | **2.24** | 0.05 -10 ng/ml |

*Signature*

*Dr/ Ahmed Saber*

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