



BML420273

Laboratory Investigation Report

Name	: Mr. ALEXANDROS MAVRAKIS	Ref No.	: 43359
DOB	: 06/11/1973	Sample No.	: 2406429123
Age / Gender	: 50 Y 7 M / Male	Collected	: 12/06/2024 11:00
Referred by	: Peshawar Medical Center LLC	Registered	: 12/06/2024 15:11
Centre	: Peshawar Medical Center LLC	Reported	: 12/06/2024 18:38

BIOCHEMISTRY

Test	Result	Flag	Unit	Reference Range	Methodology
BICARBONATE	19	L	mmol/L	22 - 29 Please note change. Source: Roche IFU.	Enzymatic

Interpretation Notes :

Bicarbonate are anions in serum or plasma (bicarbonate (HCO_3^-) and carbonate (CO_3^{2-}) ions). At the physiological pH of blood, the concentration of carbonate is 1/1000 that of bicarbonate. The bicarbonate content of plasma/serum is a significant indicator of electrolyte dispersion and anion deficit. PH determination and bicarbonate measurements are used in the diagnosis and treatment of numerous potentially serious disorders associated with acid base imbalance in the respiratory and metabolic systems. Increase in acid can lead to acidosis. The main function of kidneys is retaining or excreting of the bicarbonate ion (HCO_3). This is the ion which neutralizes the excess acid in the blood. A high level of bicarbonate in your blood can be from metabolic alkalosis as well, a condition that causes a pH increase in tissue. Metabolic alkalosis can happen from a loss of acid from your body, such as through vomiting and dehydration.

Reference:

1. Scott MG, Heusel JW, LeGrys VA, et al. Electrolytes and blood gases, in Tietz NW. Textbook of Clinical Chemistry. 3rd ed. Philadelphia, PA: WB Saunders Co 1999;1065-1066.
2. Natelson S. Microtechniques of Clinical Chemistry. Springfield, IL: Charles C Thomas 1975;147.
3. Segal MA. A rapid electrotitrimetric method for determining CO_2 combining power in plasma or serum. Am J Clin Path 1955;25:1212-1216.

Sample Type : Serum

End of Report

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M.D (Pathology)
Pathologist

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Clinical Pathologist

This is an electronically authenticated report

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SAGAR MURUKESAN PILLAI MOLY
Laboratory Technologist
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Test result pertains only to the sample tested and to be interpreted in the light of clinical history. These tests are accredited under ISO 15189:2012 unless specified by (^). Test marked with # is performed in an accredited referral laboratory.

