

**Client**
**Gurugram**

Pathkind Diagnostics Pvt. Ltd.

Plot No. 55-56, Udhog Vihar Ph-IV, Gurugram - 122015

**Processed By**

Pathkind Diagnostics Pvt. Ltd.

Plot No. 55-56, Udhog Vihar Ph-IV, Gurugram - 122015

<b>Name</b>	: Mr. BC331	<b>Billing Date</b>	: 07/07/2023 12:13:25
<b>Age</b>	: 35 Yrs	<b>Sample Collected on</b>	: 10/07/2023 10:01:31
<b>Sex</b>	: Male	<b>Sample Received on</b>	: 10/07/2023 11:02:13
<b>P. ID No.</b>	: P1000100012443	<b>Report Released on</b>	: 20/07/2023 17:57:57
<b>Accession No</b>	: 10002304499	<b>Barcode No.</b>	: 10002304499-01
<b>Referring Doctor</b>	: Self		
<b>Referred By</b>	:	<b>Ref no.</b>	:

**Report Status - Final**

Test Name	Result	Biological Ref. Interval	Unit
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**BIOCHEMISTRY**
**# Kidney Stone Analysis**
**Stone Analysis Kidney (Renal) calculus**

METHOD FTIR -	Fourier Transform Infrared Spectrometry
SAMPLE TYPE	Kidney Stone
SIZE	Stone (4mm X 4mm)
WEIGHT	0.169gms
RESULT (STONE COMPOSITION)	Caclium oxalate monohydrate (50%), Calcium oxalate dihydrate(50%)


**Interpretation**
**Renal Stones:**

The composition of urinary stones may vary from a simple crystal to a complex mixture containing several different species of crystals. The composition of the nidus (center) may be entirely different from that of the peripheral layers. Knowledge of stone composition is necessary to guide therapy of patients with recurrent stone formation.

Renal stone types	Incidence ( % )	Risk Factors	Recommendations for Prevention
Calcium oxalate	70 - 80	Increase Urine Calcium,	-Adequate fluid intake,



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(Monohydrate, Dihydrate) and calcium phosphate		oxalate, uric acid Decrease Urine volume, citrate	-Normal dietary calcium (avoid Supplement) -Moderate protein intake -Reduced salt intake -Avoid high oxalate foods (spinach, peanuts, chocolate. Coffee, tea, sweet potato, brinjal, green beans)"
Struvite stones (Magnesium Ammonium phosphate)	10 - 15	-Increase Urine pH - Urinary tract infection by a urea - splitting bacterium usually by Proteus species. - Neurogenic bladder - Other anatomic abnormalities of Urinary tract.	Treatment of the Urinary tract infection is important to inhibit further stone formation.
Uric acid	5 - 10	Increase Urine uric acid Decrease Urine pH, urine volume	Restrict consumption of food rich in uric acid or purines (cauliflower, pumpkin, mushroom, red meat, red wine).
Cysteine	<1	Inherited disorder like Cystinuria	-



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**\*\* End of Report\*\***



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