



B1one Gene-✓Chek Genetic Suspectibility Test



Asia's 1st Genetic & Microbiome
Testing Organisation

About Test

Bione Genetic Susceptibility Test is a breakthrough product, which discovers specific gene variants that are responsible for an individual's susceptibility to viral infections.

- ▶ Can help you understand variations in your DNA that may be making you more prone to highly prevalent viral infections like SARS, Influenza.
- ▶ Analyses 142 markers in 58 genes to test the susceptibility to viral infections.
- ▶ Knowledge about genetic variations which makes you more prone to the deficiency of important vitamins and minerals (Vitamin C, D and Zinc)
- ▶ Information about the efficacy of common antiviral drugs (Lopinavir, Hydroxychloroquine, Losartan, Ritonavir, Atazanavir, Telaprevir, Sofosbuvir, Tenofovir, Efavirenz, Isoniazid, Rifampin, Pyrizinamide, Ethambutol) will also be tested

Test Description

Genetic test utilizes the host genes variations responsible for viral pathogenesis which includes transmission, multiplication, dissemination, and development of disease in the host. Variations in host's genes which interact with viral proteins and are involved in these processes confers differences in susceptibility to infections and extent of severity of disease.

Through testing of more than 84 genetic variations in 58 human genes which play an important role in viral pathogenesis mechanism including entry receptors, immune response and homeostasis, recently identified SARS-CoV2 interactome proteins, potential drug metabolising enzymes, vitamins and minerals and previously documented genetic variants, Bione Genetic Susceptibility Test is world's most comprehensive and high throughput test to predict human susceptibility to respiratory viral infections (Influenza).

Intended Use

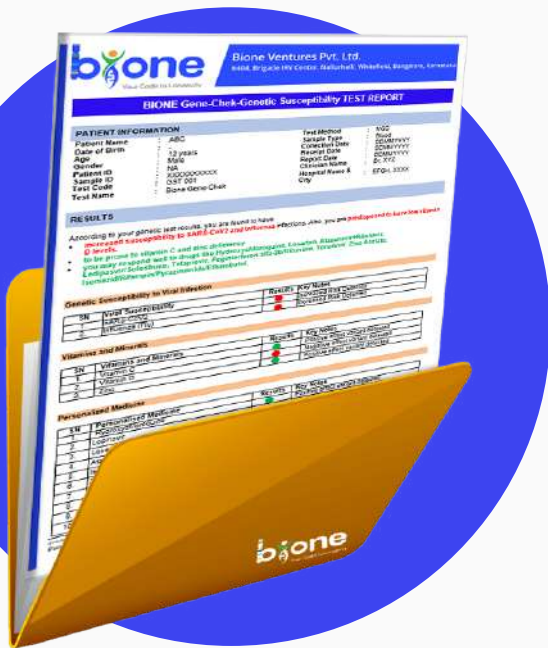
Bione genetic susceptibility test is intended to test the varying genetic susceptibility to viral infections (Influenza) in individuals using next generation sequencing analysis. This test will help individuals to have personalized care.

Technology

Bione Genetic Susceptibility Test is performed using customised targeted gene using Ion AmpliSeq™ NGS panels uses ultrahigh-multiplex PCR primer pools designed for fast and simple production of thousands of targeted amplicons from samples containing as little as 1 ng of input DNA. Genomic DNA is extracted from Saliva or Blood sample and gene variants amplicon are generated using ION AmpliSeq protocol. Amplicons are sequenced on Ion Torrent GeneStudio S5 next generation sequencing technology (ThermoFisher Scientific) for >2000x coverage. Data is analysed using Ion Reporter™ Software which provides an optimized suite of simple data analysis tools that streamline Ion GeneStudio S5 Systems. Based on the specific SNPs detected in the sample, correlation with the in-house curated statistical data for SNP-Viral susceptibility risk is calculated using weighted GRS scores (gold standard method for generation genetic risk scores for the disease susceptibility). Susceptibility and Severity risks (high or low) are reported.

Results

Customers receive the Bione Genetic Susceptibility Test report in a secure .pdf format through an email followed by Genetic Counselling through an expert.



Bione Gene-Chek Test Report

Genetic Susceptibility to SARS-CoV-2,
Viral Infection, Vitamin C, D & Zn
and Personalized Medicine





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