



CUSTOMER INFORMATION

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DiaSys Parameters in COVID-19 Monitoring

ALAT & ASAT – Part of COVID-19 Management

Alanine Aminotransferase (ALAT or GPT) and Aspartate Aminotransferase (ASAT or GOT) are the most important representatives of transaminases, which catalyze the conversion of α -keto acids into amino acids by transfer of amino groups. As a liver specific enzyme, ALAT is elevated in hepatobiliary diseases. Increased ASAT levels, however, can occur in connection with damages of heart or skeletal muscle as well as of liver parenchyma. [1]

Several meta-analysis identified elevated ALAT and ASAT values as one of the abnormal diagnostic markers in COVID-19 patients [2 - 4]. Increased ASAT levels were even linked with a high mortality rate [5].

Liver injury has a potential clinical and biological significance in COVID-19 patients and might be directly caused by viral infection of liver cells or drug-induced liver injury. [6, 7]

Therefore, continuous monitoring of parameters, such as ALAT and ASAT is advised for prognostication purposes in COVID-19 patients. [8]

By empirically using cut-off levels for LDH and ASAT, Ferrari et al. was even able to identify COVID-19 positivity/negativity in almost 70% of patients. With the right panel of analytes and appropriate cut-offs, it could be possible in future to identify COVID-19 patients with high accuracy. A simple blood test could be an inexpensive, quick and easy alternative to rRT-PCR and especially beneficial for developing countries and countries suffering from shortage of rRT-PCR reagents. [9]

For information on DiaSys ALAT and ASAT, please refer to:

[ALAT \(GPT\) FS \(IFCC mod.\)](#)

[ASAT \(GOT\) FS \(IFCC mod.\)](#)

With continuous information about "Laboratory Diagnostics in COVID-19", we want to support you in marketing DiaSys products in times of pandemic. For all information we published on this topic please refer to our newly created BLOG: <https://www.diasys-diagnostics.com/blog/>. For further details on DiaSys assays please have a look at our website: <https://www.diasys-diagnostics.com/>.

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