

Important Laboratory Information: Change of Method for the Determination of Serum Ketone Bodies and Discontinuation of the Determination of Organic Acids and Keto Acids in Blood as of July 31, 2026

Dear Colleague,

We would like to inform you that as of July 31, 2026, the determination of serum ketone bodies will be changed from our in-house GC/MS method to an IVD-certified photometric assay provided by Fujifilm.

The new method enables the measurement of total ketone bodies and β -hydroxybutyrate. The concentration of acetoacetate will be calculated as the difference between the total ketone bodies and β -hydroxybutyrate.

β -Hydroxybutyrate may also be requested as a stand-alone test. When ketone bodies are ordered, the laboratory report will include total ketone bodies, β -hydroxybutyrate, and the calculated acetoacetate as a test profile.

Laboratory reports will continue to use the same analysis abbreviation that you are familiar with.

Due to the change in method and manufacturer, the reference intervals, reporting units, and prices will be updated.

	OLD	NEW
Total ketone bodies		
Reference value / Unit		28–120 $\mu\text{mol/l}$
β -hydroxybutyrate		
Reference value/Unit	3–9 mg/l	< 74 $\mu\text{mol/l}$
Acetoacetate		
Reference value / Unit	< 20 mg/l	< 46 $\mu\text{mol/l}$

At the same time, the determination of organic acids and keto acids in blood will be discontinued as of July 31, 2026. However, we will continue to perform these tests on urine samples.

Thank you for your understanding. If you have any further questions, please contact the following persons:

Technical questions: Thomas Huber

Thomas.Huber@labor-limbach.de

Medical questions: Helene Derksen

Helene.Derksen@labor-limbach.de

Yours faithfully,

MVZ Laboratory Dr. Limbach & Colleagues eGbR

Geschäftsleitung
Dr. med. Martina Fliser
Dr. med. Martin Holfelder

Fachärzte
Dr. med. Dörte Beier
Carmen Black
Dr. Irena Crnkovic-Mertens
Helene Derksen
Prof. Dr. med. Peter Findeisen
Dr. med. Martina Fliser*
Dr. med. Gabriele Genthner-Grimm
Dr. med. Anne-Sophie Limbach
MUDr. Hans Jakob Limbach
Dr. med. Hans-Jakob Limbach*
Dr. med. Kai-Jürgen Luthgens
Dr. med. Cyrill Müller
Dr. med. Paul Schindler
Joachim Singer
Dr. med. Margot Thiaucourt
Fachärzte für Laboratoriumsmedizin
Prof. Dr. med. Herbert Hof
Dr. med. Klaus Oberdorfer
Fachärzte für Mikrobiologie, Virologie und Infektions-epidemiologie/Hygiene und Umweltmedizin/Laboratoriumsmedizin
Dr. med. Martin Holfelder*
Facharzt für Laboratoriums-medizin/Mikrobiologie, Virologie und Infektions-epidemiologie
Dr. med. univ. Ilka Steiner
Fachärztin für Laboratoriums-medizin/Mikrobiologie, Virologie und Infektionsepidemiologie/Klinische Pharmakologie
Dr. med. Konrad Bode
Dr. med. Alessa Boschert
Dr. med. Kati-Andrea Koch
Dr. med. Jan Kubis
Dr. med. Torsten Schmidt-Wieland
Sabine Singer
Fachärzte für Mikrobiologie, Virologie und Infektionsepidemiologie
Dr. med. Sabine Schütt
Prof. Dr. med. Constanze Wendt
Fachärztinnen für Mikrobiologie, Virologie und Infektionsepidemiologie/Hygiene und Umweltmedizin
PD Dr. med. Karin Janetzko
Fachärztin für Transfusions-medizin/Laboratoriums-medizin

*Ärztliche Leitung