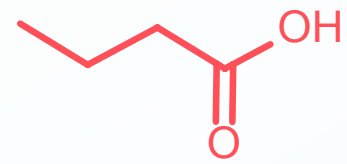




# Short Chain Fatty Acid Panel



## Short-Chain Fatty Acids

Short-chain fatty acids (SCFAs) are produced in the colon by the gut microbiota. They are the end products of anaerobic fermentation of dietary fibers and protein/peptides in the small intestine. Their formation is the result of a complex interaction between diet, gut microbiota and host. SCFAs influence the physiology of the colon serving as energy sources by host cells and the intestinal microbiota as well as participating in different host-signaling mechanisms.

## Applications

- ▶ Biopharmaceutical modulation of the host microbiome
- ▶ Bacterial product development
- ▶ Nutraceuticals and probiotics
- ▶ Dietary intervention
- ▶ Gut health and wellness
- ▶ Basic microbiome research

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SCFA Panel	LLOQ*	
	Plasma/Serum	Feces
Acetic Acid (C2)	1000 ng/mL	50.0 µg/g
Propionic Acid (C3)	100 ng/mL	25.0 µg/g
Butyric Acid (C4)	25.0 ng/mL	25.0 µg/g
Isobutyric Acid (C4)	25.0 ng/mL	5.00 µg/g
Valeric Acid (C5)	25.0 ng/mL	5.00 µg/g
Isovaleric Acid (C5)	25.0 ng/mL	5.00 µg/g
2-Methyl butyric Acid (C5)	25.0 ng/mL	5.00 µg/g
Caproic Acid (C6)	50.0 ng/mL	1.00 µg/g
Lactic Acid	(upon request)**	

\*Lower Limit of Quantitation (LLOQ) varies for each sample type.

\*\* Available in select sample types only.

The panel is for non-GxP testing and is not for diagnostic use.

## Analysis Method and Instrumentation

LC-MS/MS (Agilent 1290 UHPLC/Sciex QTrap 5500)

## Sample Type and Required Amounts

Sample Type	Sample Requirement
Feces (wet weight)	200 - 500 mg
Plasma/Serum	100 - 150 µL
Bacterial cultures	300 - 500 µL
Urine	300 - 500 µL
Saliva	150 - 250 µL
Tissue	50 - 100 mg

Others on request