

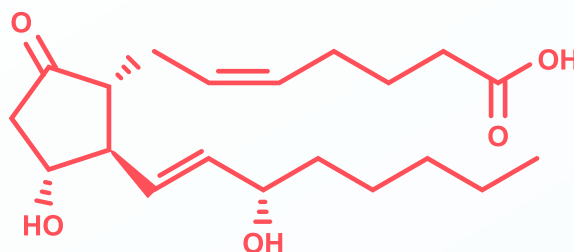


Oxylipins in Tissue

Oxylipins are signaling lipids that play key physiological roles including ovulation, initiation of labor, wound healing, kidney function, blood-vessel tone, blood coagulation, immune responses, and inflammation. They derive from the oxidation of polyunsaturated fatty acids (PUFA) through enzymatic or non-enzymatic free radical-mediated reactions, which can yield an array of lipid metabolites including eicosanoids, octadecanoids and docosanoids. Some of the most successful drug classes, such as the nonsteroidal anti-inflammatory drugs (NSAID), target the oxylipin modules.

Applications

- ▶ Gut health and wellness
- ▶ Basic microbiome research
- ▶ Immune system, infectious disease & COVID-19
- ▶ Inflammation & oxidative stress
- ▶ Cardiovascular diseases



Analyte	LLOQ
	Tissue
14,15-EET	6.25 ng/g
11,12-EET	6.25 ng/g
14,15-DiHET	6.25 ng/g
11,12- DiHET	6.25 ng/g
5,6-EET	10.0 ng/g
8,9-EET	10.0 ng/g
5,6- DiHET	6.25 ng/g
8,9- DiHET	6.25 ng/g
20-HETE	20.0 ng/g
19-HETE	25.0 ng/g
Prostaglandin D2	10.0 ng/g
Prostaglandin F2a	15.0 ng/g
Leukotriene B4	40.0 ng/g
Prostaglandin E2	10.0 ng/g
Leukotriene C4	40.0 ng/g
Leukotriene D4	30.0 ng/g
Leukotriene E4	40.0 ng/g

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
Colon Tissue	100 mg tissue
Others on request	

Contact us to get started
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