



**Assay Description: Short Chain Fatty Acid Profile**

**Service Code: SCFA**

**Summary:** Cold extraction of short chain fatty acids, measured by EI- GCMS without derivatization. SCFA species are reported as uM or ug/mg fecal material (dry weight) , with CV's generally ~10%.

Container: Eppendorf Tube or equivalent

**Normal Volume:** Plasma (100 ul); Tissue (50 mgs); Cells (2E7), Feces (50 mg –human; 20 mg-rodent)

**Minimal Volume:** Plasma (50 uL); Tissue (30 mg); Cells (~5E6); Feces (40 mg-human; 20 mg- rodent)

**Special Handling:** If human or primate, note any known presence of infectious agents.

**Sample Collection:** Snap freeze by liquid nitrogen. For tissues, resect and snap-freeze as soon as practical in tared centrifuge tube. Provide both sample weight and tared vial weight on sample submission

**Table I: Analytes reported. Others on special request:**

Analyte	Abbr.	PubCHEM	LOQ(uM)
Acetic acid	(C2:0)	176	1
Propionic acid	(C3:0)	1032	1
Butyric acid	(C4:0)	264	1
Isobutyric acid	(C4:0i)	6590	1
Valeric acid	(C5:0)	7991	1
Isovaleric acid	(C5:0i)	10430	1
Caproic acid (Hexanoic)	(C6:0)	8892	1