

CECBP Potential Priority Chemicals

Chemical Name ¹	Laboratory Considerations				Handout
	Lab undertaking analysis	Biospecimen	Timeline for CECBP lab capability ²	Found in humans ³	
Perfluorinated compounds⁴					CDC: Calafat et al. 2007, 2007a; Begley et al. 2005; Kannan et al. 2006
Perfluorooctanoic acid	DTSC	Serum	Soon	NHANES	
Perfluorooctane sulfonamide	DTSC	Serum	Not planned	NHANES	
Perfluorooctane sulfonic acid	DTSC	Serum	Soon	NHANES	
Perfluorohexane sulfonic acid	DTSC	Serum	Soon	NHANES	
2-(N-ethyl-perfluorooctane sulfonamido) acetic acid	DTSC	Serum	Soon	NHANES	
2(N-Methyl-perfluorooctane sulfonamido) acetic acid	DTSC	Serum	Soon	NHANES	
Perfluorodecanoic acid	DTSC	Serum	Soon	NHANES	
Perfluorobutane sulfonic acid	DTSC	Serum	Not planned	NHANES	
Perfluoroheptanoic acid	DTSC	Serum	Soon	NHANES	
Cyclosiloxanes⁵	DTSC	Serum	Later	Other	CECBP Document

Notes:

¹ Target chemical for measurement may be parent chemical, metabolite, or related compound and may change as method development proceeds.

² Soon = plan for near-term (< 12 month) capability; Later = plan for long-term (>12 month) capability; Not planned = not currently developing capability. This represents the anticipated timeline by which the labs will be technically capable of measuring the chemical, but does not take the resources required to routinely biomonitor the chemical into account.

³ NHANES = detected in NHANES participants; Other = detected in a biomonitoring study other than NHANES

⁴ All members of the chemical class are not designated chemicals; only the specific chemicals listed are designated chemicals.

⁵ All members of the chemical class are designated chemicals, including but not limited to, the chemicals shown.

References:

Begley et al. (2005). Perfluorochemicals: Potential sources of and migration from food packaging. *Food Add. and Contam* 22(10):1023-1031.

<http://www.ncbi.nlm.nih.gov/pubmed/16227186>

CDC 3rd Report: <http://www.cdc.gov/exposurereport/pdf/thirdreport.pdf>

Calafat et al. (2007). Polyfluoroalkyl chemicals in the U.S. population. *Env. Health Persp* 115(11):1596-1602.

http://www.cdc.gov/exposurereport/perfluorinated_compounds2.htm

Calafat et al. (2007a). Serum concentrations of 11 polyfluoroalkyl compounds in the U.S. population. *Environ. Sci. Technol* 41(1):2237-2242.

http://www.cdc.gov/exposurereport/perfluorinated_compounds1.htm

CECBP Document Cyclosiloxanes <http://oehha.ca.gov/multimedia/biomon/pdf/1208cyclosiloxanes.pdf>

Kannan et al. (2006). Association between perfluorinated compounds and pathological conditions in southern sea otters. *Environ. Sci. Technol* 40:4943-4948. <http://www.ncbi.nlm.nih.gov/sites/entrez>