

### **EDGE**®

**Automated Extraction System** 

# Method Note Compendium

Updated September 25, 2019

## Contents

#### Agriculture

Extraction of Pesticides From Avocados	2
Extraction of Polyphenols From Beans	3
Extraction of Polyphenols From Cacao	4
Extraction of Cannabinoids From Cannabis Plant	5
Extraction of Mycotoxins From Cannabis Plant	6
Extraction of Pesticides From Cannabis Plant	7
Extraction of Total Fat From Feeds/Foods	8
Extraction of PCBs From Feeds/Foods (Wet)	9
Extraction of Dioxins From Feeds/Foods (Wet)	10
Extraction of PCBs From Fish Meal (Dry)	11
Extraction of PAHs From Fish Tissue (Dry)	12
Extraction of PAHs From Fish Tissue (Wet)	13
Extraction of Pesticides From Foods (Wet)	14
Extraction of Pesticides From Hops	15
Extraction of Fat From Nuts (Brazil)	16
Extraction of Fat From Nuts (Hazelnuts)	17
Extraction of Fat From Pumpkin Seeds	18
Extraction of Brodifacoum From Rat Poison Powder	19
Extraction of Pesticides From Rice	20
Extraction of PCBs From Soy Meal (Dry)	21
Extraction of Pesticides From Spices (Dry)	22
Extraction of Pesticides From Strawberries	23
· · · · · · · · · · · · · · · · · · ·	

#### Cannabis

Extraction of THC/THCA From Cannabis Flower	25
Extraction of Cannabinoids From Cannabis Plant	26
Extraction of Mycotoxins From Cannabis Plant	27
Extraction of Pesticides From Cannabis Plant	28

#### Environmental & Regulatory

Extraction of SVOCs Environmental Samples	30
Extraction of SVOCs EPA 3545A	31
Extraction of Dioxins From Calcined Kiln Dust	32
Extraction of SVOCs, Pesticides, TPH, PCB From Cement Mix	33
Extraction of SVOCs From Environmental Samples	34
Extraction of PAHs From Fish Tissue (Wet)	35
Extraction of Organics From Lake Sediment	36
Extraction of PCBs From PUF Filters (Large)	37
Extraction of PCBs From PUF Filters (Small)	38
Extraction of PAHs From Quartz Air Filter	39
Extraction of Dioxins From Soil	40
Extraction of Diesel and Oils From Soil	41
Extraction of PAHs From Soil, Loam or Clay	42
Extraction of PCBs From Soil, Loam or Clay	43
Extraction of Dioxins From Soil, Loam or Clay	44
Cleaning of PUF Filters	45

#### **Food Testing**

Extraction of Pesticides From Avocados	47
Extraction of Polyphenols From Beans	48
Extraction of Fat From Bone Meal	49
Extraction of Fat From Bread	50
Extraction of Polyphenols From Cacao	51
Extraction of Cannabinoids From Cannabis Plant	52
Extraction of Mycotoxins From Cannabis Plant	53
Extraction of Pesticides From Cannabis Plant	54
Extraction of Lipids From Chicken (Baked)	55
Extraction of Lipids From Chicken (Fried)	56
Hydrolysis & Extraction of Total Fat From Chocolate	57
Hydrolysis & Extraction of Total Fat From Cookies	58

Extraction of Fat From DATEM Powder	59
Extraction of Flavonoids from Echinacea	60
Extraction of Fat From Egg Powder	61
Extraction of Total Fat From Feeds/Foods	62
Extraction of PCBs From Feeds/Foods (Wet)	63
Extraction of Dioxins From Feeds/Foods (Wet)	64
Extraction of PCBs From Fish Meal (Dry)	65
Extraction of PAHs From Fish Tissue (Dry)	66
Extraction of PAHs From Fish Tissue (Wet)	67
Extraction of Pesticides From Foods (Wet)	68
Extraction From Goldenseal Root	69
Extraction of Pesticides From Hops	70
Extraction of Total Fat From Hot Dogs	71
Extraction of PAHs From Infant Formula	72
Extraction of Total Fat From Meats (High-Fat)	73
Extraction of Total Fat From Meats (Potted)	74
Extraction of Fat From Nuts (Brazil)	75
Extraction of Fat From Nuts (Cashews)	76
Extraction of Fat From Nuts (Hazelnuts)	77
Extraction of Total Fat From Nuts (Peanuts)	78
Extraction of Total Fat From Pepperoni	79
Extraction of Lipids From Potatoes (Baked)	80
Extraction of Lipids From Potatoes (Fried)	81
Extraction of Nutrients From Protein Powder	82
Extraction of Total Fat From Protein Powder	83
Extraction of Fat From Pumpkin Seeds	84
Extraction of Pesticides From Rice	85
Extraction of PCBs From Soy Meal (Dry)	86
Extraction of Pesticides From Spices (Dry)	87
Extraction From Spirulina Algae	88
Extraction of Pesticides From Strawberries	89
Extraction of PAHs From Yerba Mate	90

#### Geoscience & Mining

Extraction of Dioxins From Calcined Kiln Dust	92
Extraction of SVOCs, Pesticides, TPH, PCB From Cement Mix	93
Extraction of Molybdenum	94

#### Industrial Hygiene

Extraction of PCBs From PUF Filters (Large)	96
Extraction of PCBs From PUF Filters (Small)	97
Extraction of Brodifacoum From Rat Poison Powder	98
Cleaning of PUF Filters	99

#### Materials Science

Extraction of Pigments From Plastics 102  Extraction of Additives From Polypropylene Powder 103  Extraction of Phthalates From Polyvinyl Chloride 104  Extraction of PCBs From PUF Filters (Large) 105  Extraction of PCBs From PUF Filters (Small) 106  Extraction of Brodifacoum From Rat Poison Powder 107  Extraction of Antioxidants From Resin 108  Extraction of PAHs From XAD Resin 109  Cleaning of PUF Filters 110	Extraction of Film Powder	101	
Extraction of Phthalates From Polyvinyl Chloride 104  Extraction of PCBs From PUF Filters (Large) 105  Extraction of PCBs From PUF Filters (Small) 106  Extraction of Brodifacoum From Rat Poison Powder 107  Extraction of Antioxidants From Resin 108  Extraction of PAHs From XAD Resin 109	Extraction of Pigments From Plastics	102	
Extraction of PCBs From PUF Filters (Large) 105  Extraction of PCBs From PUF Filters (Small) 106  Extraction of Brodifacoum From Rat Poison Powder 107  Extraction of Antioxidants From Resin 108  Extraction of PAHs From XAD Resin 109	Extraction of Additives From Polypropylene Powder	103	
Extraction of PCBs From PUF Filters (Small) 106  Extraction of Brodifacoum From Rat Poison Powder 107  Extraction of Antioxidants From Resin 108  Extraction of PAHs From XAD Resin 109	Extraction of Phthalates From Polyvinyl Chloride	104	
Extraction of Brodifacoum From Rat Poison Powder 107  Extraction of Antioxidants From Resin 108  Extraction of PAHs From XAD Resin 109	Extraction of PCBs From PUF Filters (Large)	105	
Extraction of Antioxidants From Resin 108  Extraction of PAHs From XAD Resin 109	Extraction of PCBs From PUF Filters (Small)	106	
Extraction of PAHs From XAD Resin 109	Extraction of Brodifacoum From Rat Poison Powder 107		
	Extraction of Antioxidants From Resin	108	
Cleaning of PUF Filters 110	Extraction of PAHs From XAD Resin	109	
	Cleaning of PUF Filters	110	

#### Metals & Alloys

Extraction of Molybdenum	112
--------------------------	-----

#### Nutraceuticals

Extraction of Flavonoids From Echinacea	114
Extraction of PAHs From Fish Tissue (Dry)	115
Extraction of PAHs From Fish Tissue (Wet)	116
Extraction From Goldenseal Root	117

Extraction of PAHs From Infant Formula	118
Extraction of Nutrients From Protein Powder	119
Extraction of Total Fat From Protein Powder	120
Extraction From Spirulina Algae	121
Extraction of PAHs From Yerba Mate	122

#### Personal Care Products

Extraction of PAHs From Infant Formula	124
Extraction of Mouthwash	125
Extraction of Toothpaste	126

#### Plastics, Polymers, & Oils

	Extraction of Film Powder	128
	Extraction of Additives From PET	129
	Extraction of Additives From Pigment	130
	Extraction of Pigments From Plastics	131
	Extraction of Additives From Polyethylene Powder	132
	Extraction of Chemical Modifier From Polyethylene Resin	133
	Extraction of Additives From Polypropylene Powder	134
	Extraction of Phthalates From Polyvinyl Chloride	135
	Extraction of Diesel and Oils From Soil	136