

A comparison of extraction methods for the sampling / initial ST of solids (Table 9) [1.15]

Parameter	Sonication	Soxhlet (traditional)	Soxhlet (modern)	SFE	ASE	MASE (MA)	MASE (NMA)
Sample size, g	20-50	10-20	10-20	5-10	5-15	2-5	2-10
Solvent volume, ml	100-300	200-500	50-100	10-20	10-15	30	20-30
Temperature, °C	Ambient-40	40-100	40-100	50-150	50-200	100-200	Ambient
Pressure	Atmospheric	Atmospheric	Atmospheric	2000-4000 psi	1500-2000 psi	1500-2000 psi	Atmospheric
Time, h	0.5-1.0	12-24	1-4	0.5-1.0	0.2-0.3	0.2-0.3	0.1-0.2
Degree of automation	0	0	++	+++	+++	++	++
Number of samples	High	1	6	44	24	12	12
Costs	Low	Very low	Moderate	High	High	Moderate	Moderate

Table 9: Comparison of extraction methods for sampling and initial sample treatment of solids.