

S1 Table Optimal conditions achieved for soil and vegetables samples digestion procedures.

No.	Reagent volumes (mL)			Temperature(°C)	Pressure (w)	Time (min)	Result /Observation
	HNO ₃	HCl	Total				
1	4mL	8mL	12mL	70-130	25-55	20	Deep yellow
2	5mL	7mL	12mL	80-140	30-60	25	Deep yellow
3	6mL	6mL	12mL	90-150	35-65	30	Deep yellow
4	7mL	5mL	12mL	100-160	40-70	35	clear and pale
5	8mL	4mL	12mL	110-170	45-75	40	Clear and pale
6	*9mL	*3mL	12mL	*120-180	*50-80	*45	*Clear and Colorless
7	10mL	2mL	12mL	130-190	55-85	50	Clear with suspension
8	11mL	1mL	12mL	140-200	60-90	55	Clear with suspension

*Indicates that the optimal condition for soil, vegetables and water samples digestion procedure.