

Supplimentary Table S1: White analytical chemistry

RED PRINCIPLES (analytical performance)			R1: Scope of application		R2: LOD and LOQ		R3: Precision			R4: Accuracy		
	Method number	Method name	0-100	LOD	LOQ	0-100	RSD% (repeatability)	RSD% (reproducibility)	0-100	Relative error (%)	Recovery (%)	0-100
	1	UV spectroscopic method	95	0.088, 0.287	0.293-0.962	96	0.679-1.622	0.964-1.796	100	0.670-1.70	98.37-100.76	100
	2	HPLC APCR	100	0.133-0.402	0.458-2.589	80	0.671- 0.509	0.604-1.690	100	----	98.98-101.50	100
	3	HPLC IJSR	100	0.19-1.19	2.57-2.94	75	0.63-1.57	0.11-0.63	100	----	99.77-100.31	100
	4	HPLC WJPPS	100	0.147-1.306	0.444-3.956	70	0.44-0.55	0.25-0.91	100	----	99.45-101.17	100
GREEN PRINCIPLES (green chemistry)			G1: Toxicity of reagents (impact and biodegradation)		G2: Amount of reagents and waste		G3: Consumption of energy and other media	G4: Direct impacts (safety, use of animals and GMOs)				
	Method number	Method name	Total number of pictograms	0-100	Reagent consumption	Waste production	0-100	1-100	Occupational hazards	Safety of users (0-100)	Use of animals (0 if no, 1 if yes)	Use of GMO (0 if no, 1 if yes)
	1	UV spectroscopic method	Safe and biodegradable	95	< 10ml	< 10ml	95	95	Not Hazardous	100	0	0
	2	HPLC APCR	Toxic	75	>10 ml	>10 ml	75	75	Hazardous	80	0	0
	3	HPLC IJSR	Toxic	65	>10 ml	>10 ml	75	75	Hazardous	70	0	0
	4	HPLC WJPPS	Toxic	75	>10 ml	>10 ml	75	75	Hazardous	80	0	0
BLUE PRINCIPLES (practical side)			B1: Cost-efficiency		B2: Time-efficiency		B3: Requirements			B4: Operational simplicity		
	Method number	Method name	Total cost USD/Sample	0-100	Speed of analysis /Hour	0-100	Sample consumption	Sample consumption (0-100)	Other needs: advanced instruments, skills, facilities (0-100)	Miniaturization (0-100)	Integration and automation (0-100)	Portability (0-100)
	1	UV spectroscopic method	5	100	60 samples	100	in micrograms	100	100	90	95	95
	2	HPLC APCR	8	90	7 samples	75	in micrograms	100	95	95	100	95
	3	HPLC IJSR	7	95	12 samples	85	in micrograms	100	95	95	100	95
	4	HPLC WJPPS	8	90	7 samples	75	in micrograms	100	95	95	100	95

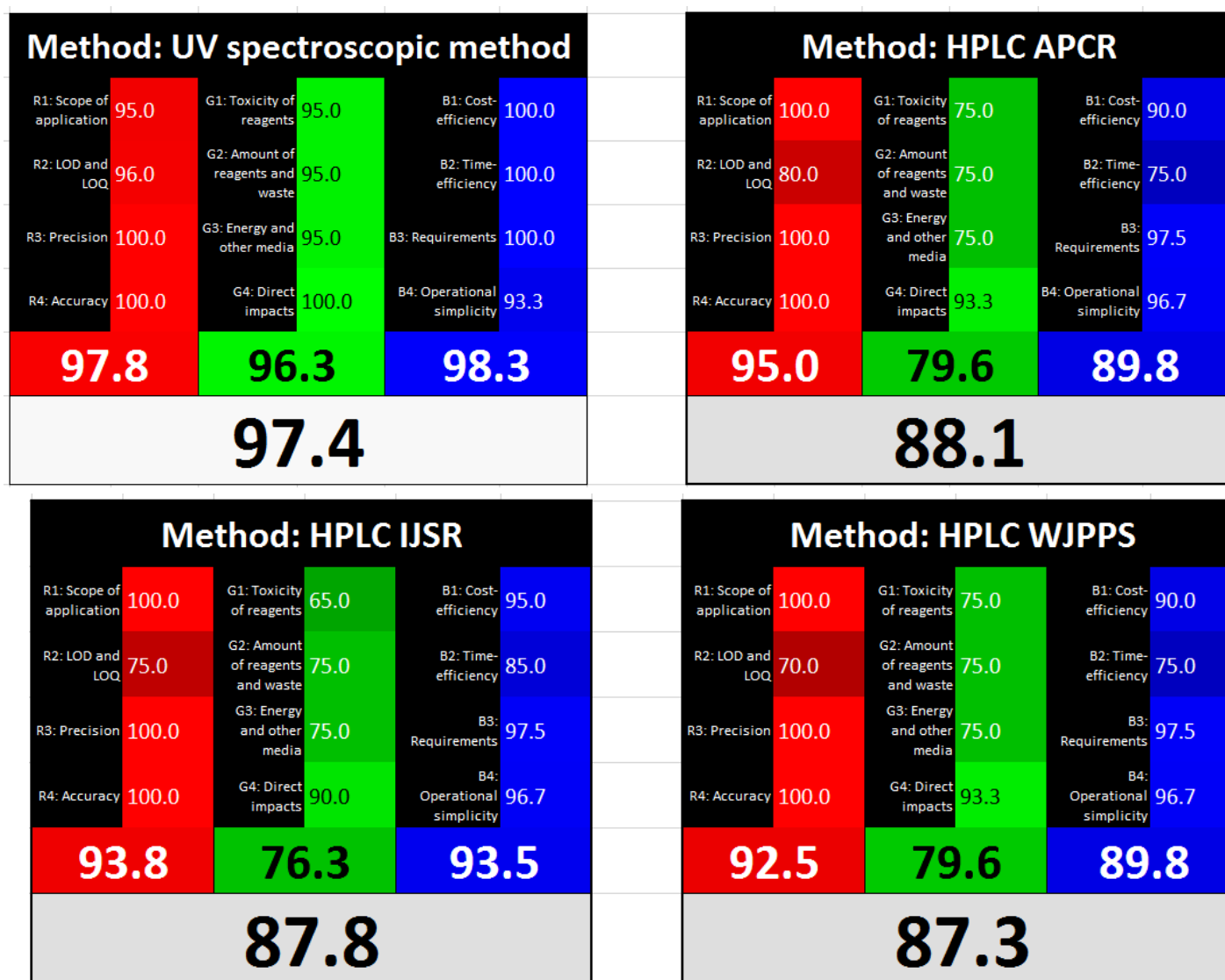


Figure S3: whiteness score of UV spectroscopic method and reported HPLC methods