

## Supplementary Materials

### Development and Validation of an HPLC-FLD Method for the Determination of Pyridoxine and Melatonin in Chocolate Formulations—Digestion Simulation Study

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**Table S1.** Physicochemical properties of melatonin and pyridoxine-HCl.

	PYR	MEL
Molecular Weight (g/mol)	205.64	232.28
Log P	-0.57	1.42
pka (strongest acidic)	9.4	15.8
pka (strongest basic)	5.58	-1.6
Water Solubility (mg/ml) *	16.1	0.143
Methanol Solubility(mg/ml) *	1	50
Acetonitrile Solubility **	>2.8 mg/25mL	>2 mg/25mL

\* Bibliographic Data

\*\* Experimental Data

**Table S2.** Gradient elution program of mobile phase.

Time	Concentration B
3.00	0
3.50	30
12.00	30
13.00	0
22.00	Stop