

Clinical Evidence

A single centre, non-randomised, blind crossover study involving 26 participants was conducted by the PCDDP at the North-West University in South Africa. The purpose of the study was to assess the bio-availability of the green tea extract used in the production of Origine 8™ compared to a standard commercially available extract of green tea commonly found in green tea supplements.

Participants consumed 200mg twice per day of a standard green tea extract followed by a 14 day washout period and thereafter 200mg twice per day dose of the extract found in Origine 8™ was consumed. Blood samples were drawn over a 24 hour period post consumption to measure levels of catechin concentrations in the blood.

A compilation of the concentration-time curves (AUC) as determined by LC-MS-MS were possible for levels of epigallocatechin, epicatechin, epigallocatechin gallate, epicatechin gallate, catechin gallate, gallic catechin and total catechin in the plasma. This allowed for comparative statistical endpoints including time at maximum concentration (Tmax) and maximum concentration (Cmax) for plasma concentrations of individual and total catechins.

	Epigallocatechin	Gallic catechin Gallate	Epicatechin	Epicatechin Gallate	Gallic catechin	Epigallocatechin Gallate	Catechin	Catechin Gallate	
Catechin									Total
Origine 8™	1410	2129	476	566	594	6120	175	159	11630
Standard	84	87	37	33	52	612	20	4	930

Figure 1. Measured as Average ng/ml per participant

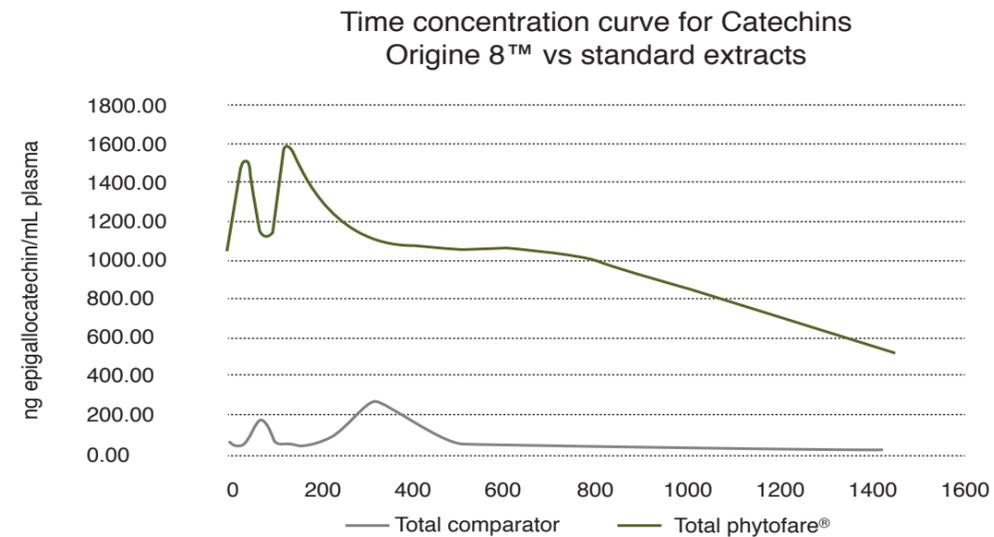


Figure 2.

The results drawn from the study revealed the following:

- 1 **Origine 8™ delivered an average concentration of catechins of 11 630 ng/ml compared to a concentration of 930 ng/ml delivered by the standard green tea extract.** A 12 fold greater average concentration was delivered by Origine 8™. Origine 8™ offered complete absorption of all 8 catechin found in green tea. With the exception of EGCG standard green tea extract provided insignificant levels of the other 7 catechin in comparison to Origine 8™ as demonstrated in figure 1.
- 2 **The average concentration of Epigallocatechin Gallate (EGCG) delivered by Origine 8™ was 6120 ng/ml compared to an average concentration of 612 ng/ml EGCG delivered by the standard green tea extract.** EGCG is regarded as a key catechin and Origine 8™ delivers a 10 fold greater total concentration.
- 3 **Origine 8™ resulted in a far greater half-life compared to the standard green tea extract.** Catechins delivered by Origine 8™ were still found to be present in the plasma after 24 hours whereas standard green tea was cleared from the body after only 6 hours. This means that Origine 8™ could be used as a once per day dose whilst standard green tea would require multiple doses of far greater size throughout the day to deliver the same levels of catechins achieved through a single dose of a far smaller size of Origine 8™.