



# Plandai Biotech Bioavailability trial results

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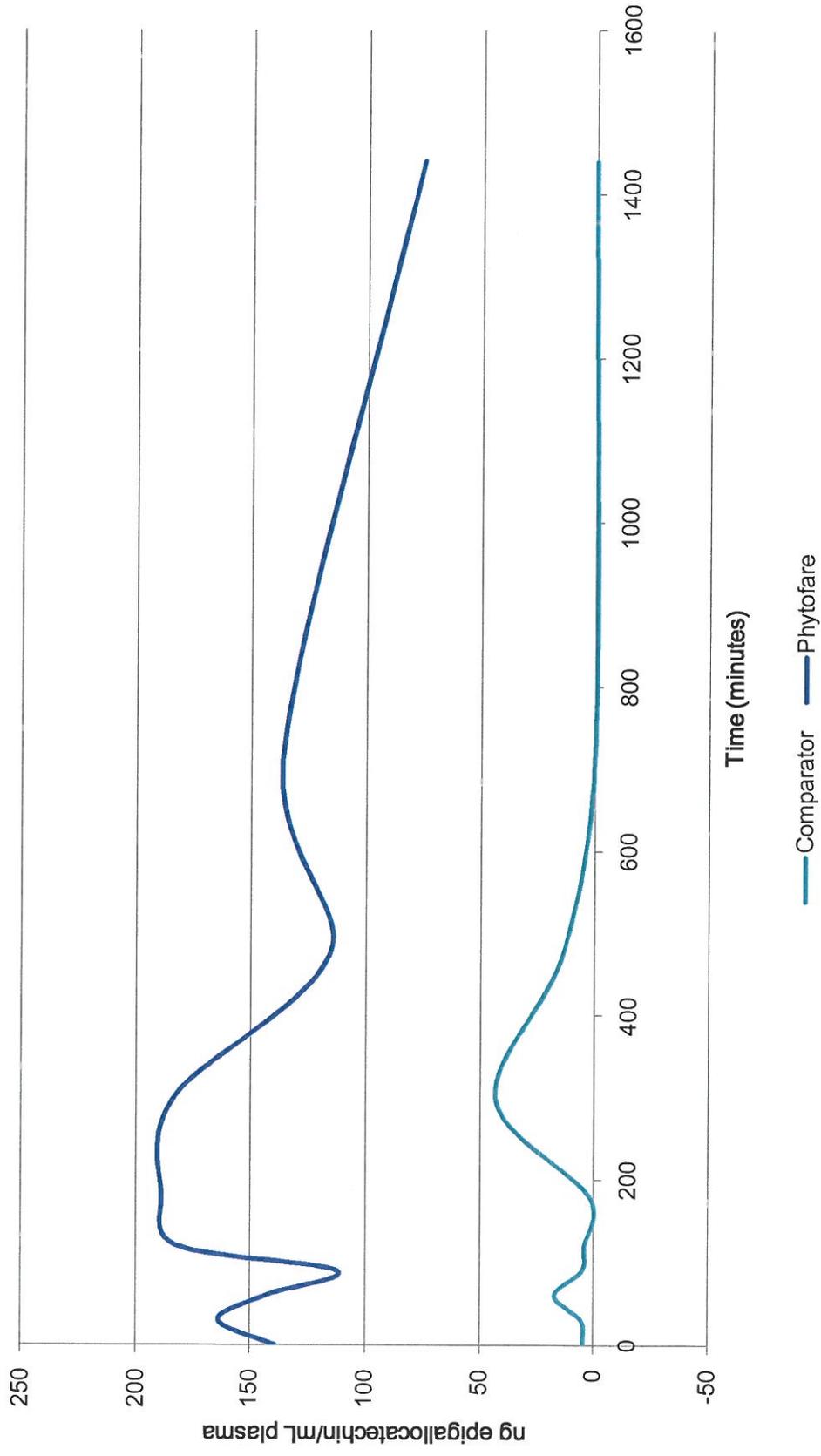
It all starts here



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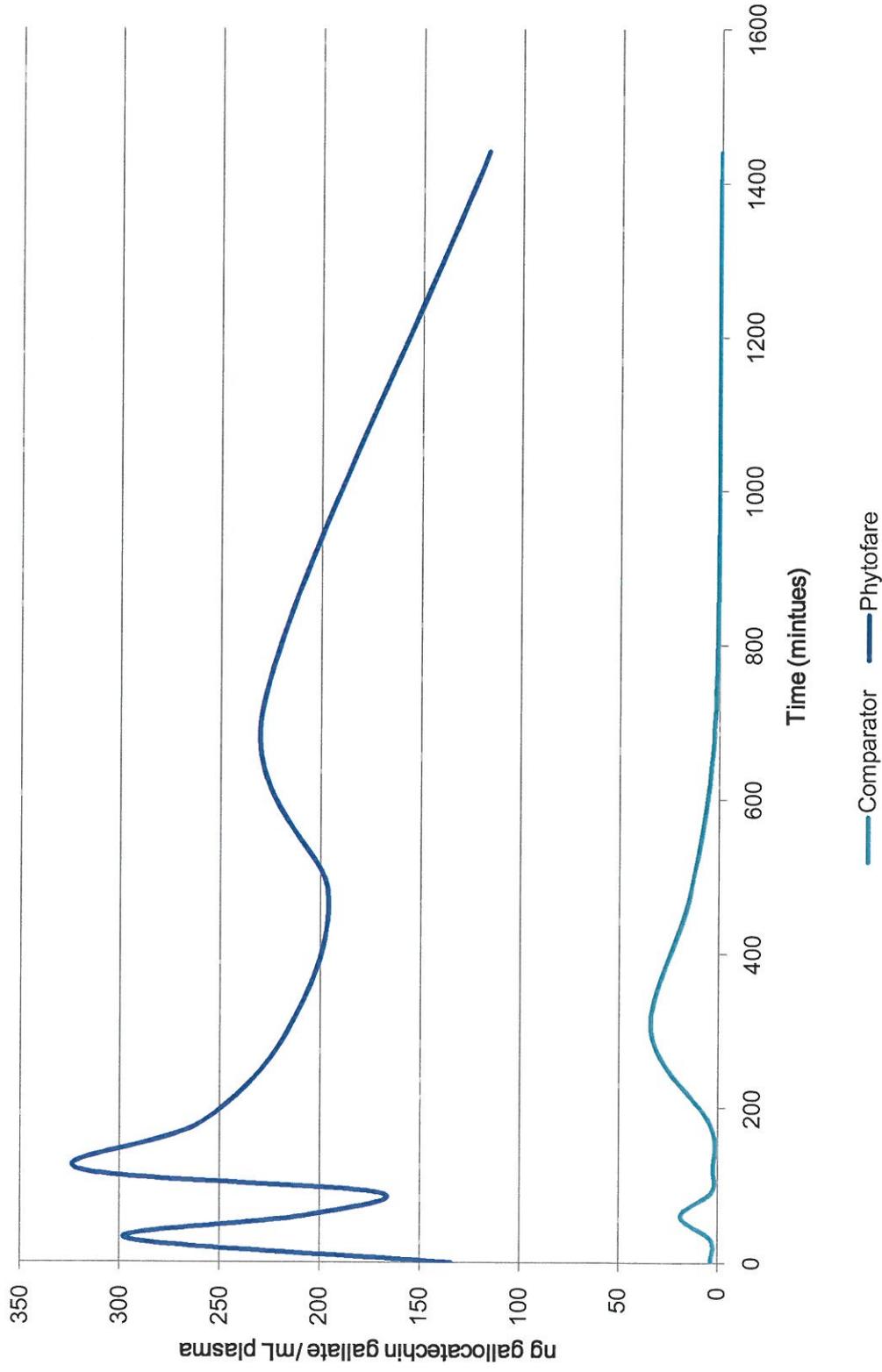
# Epigallocatechin

Time concentration curve for epigallocatechin



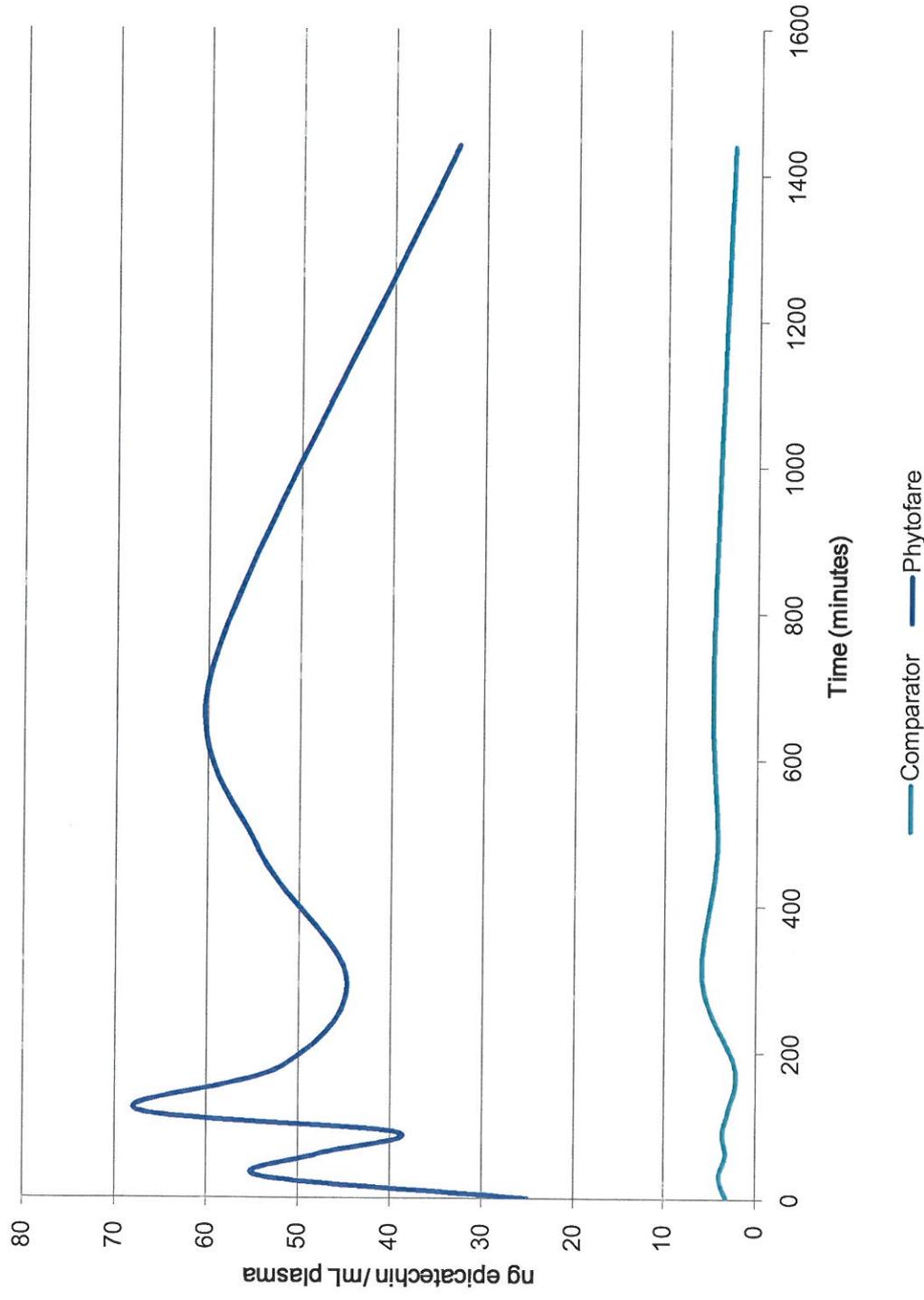
# Gallocatechin gallate

Time concentration curve for gallocatechin gallate



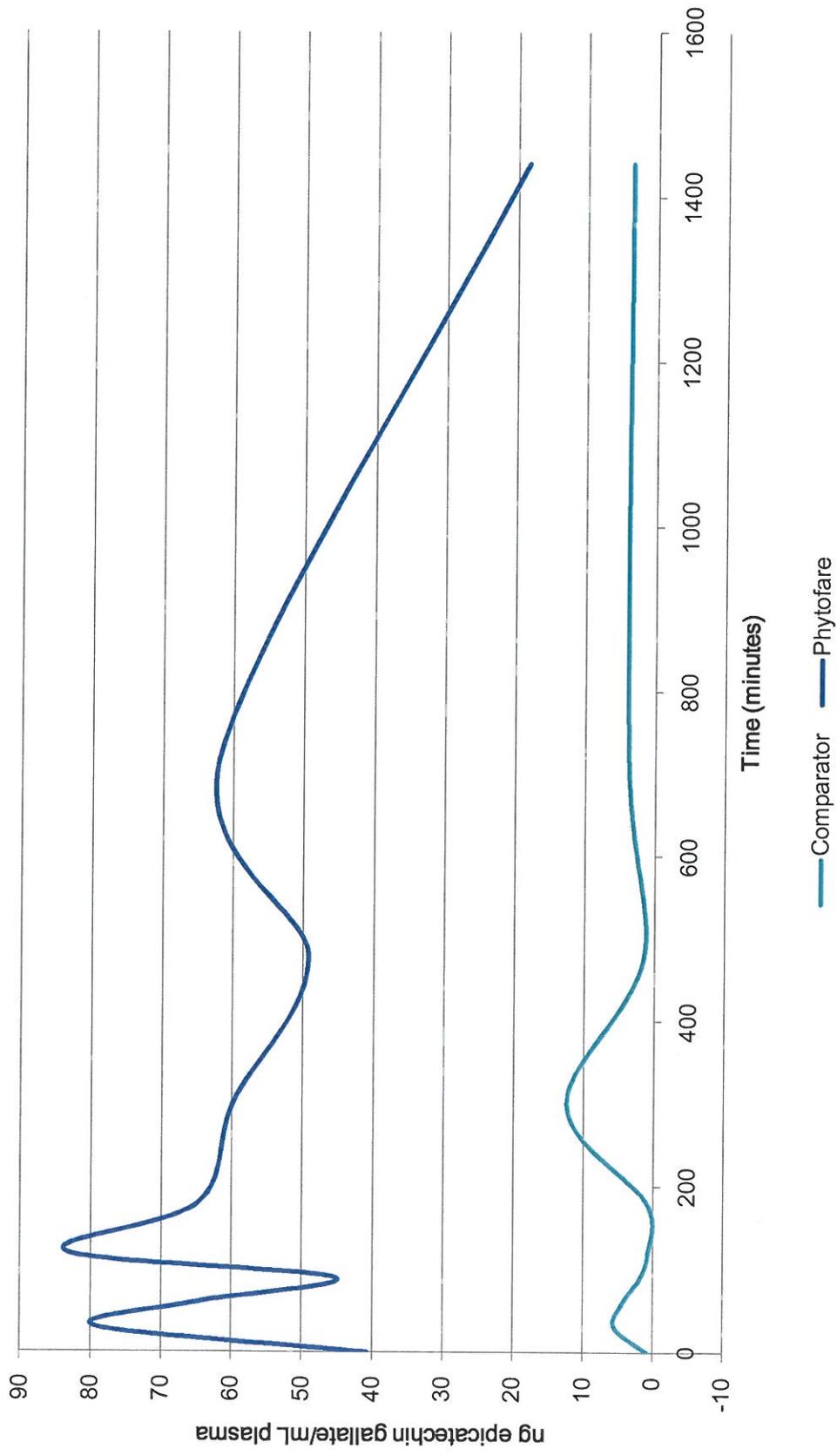
# Epicatechin

Time concentration curve for epicatechin



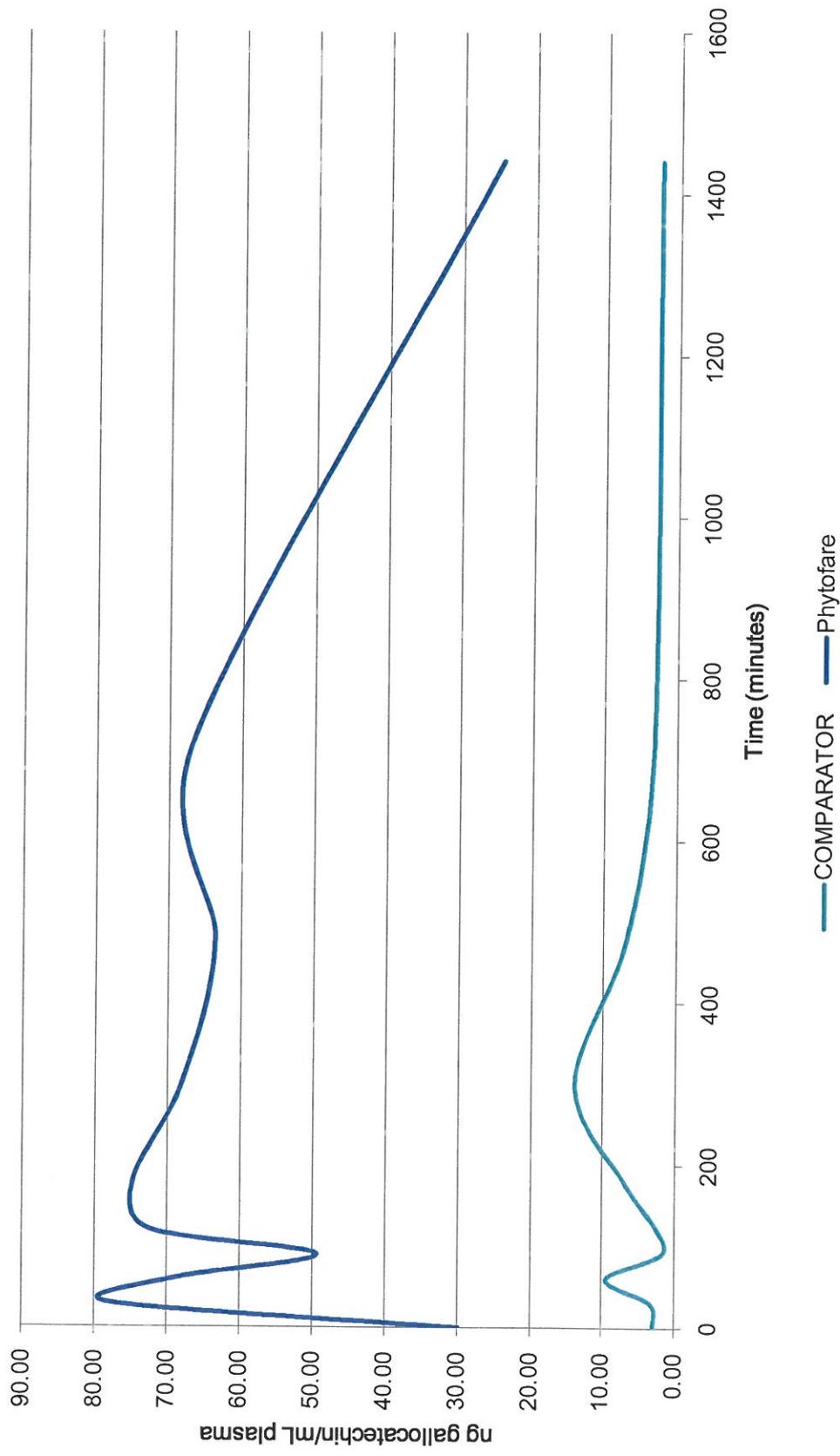
# Epicatechin gallate

Time concentration curve for epicatechin gallate



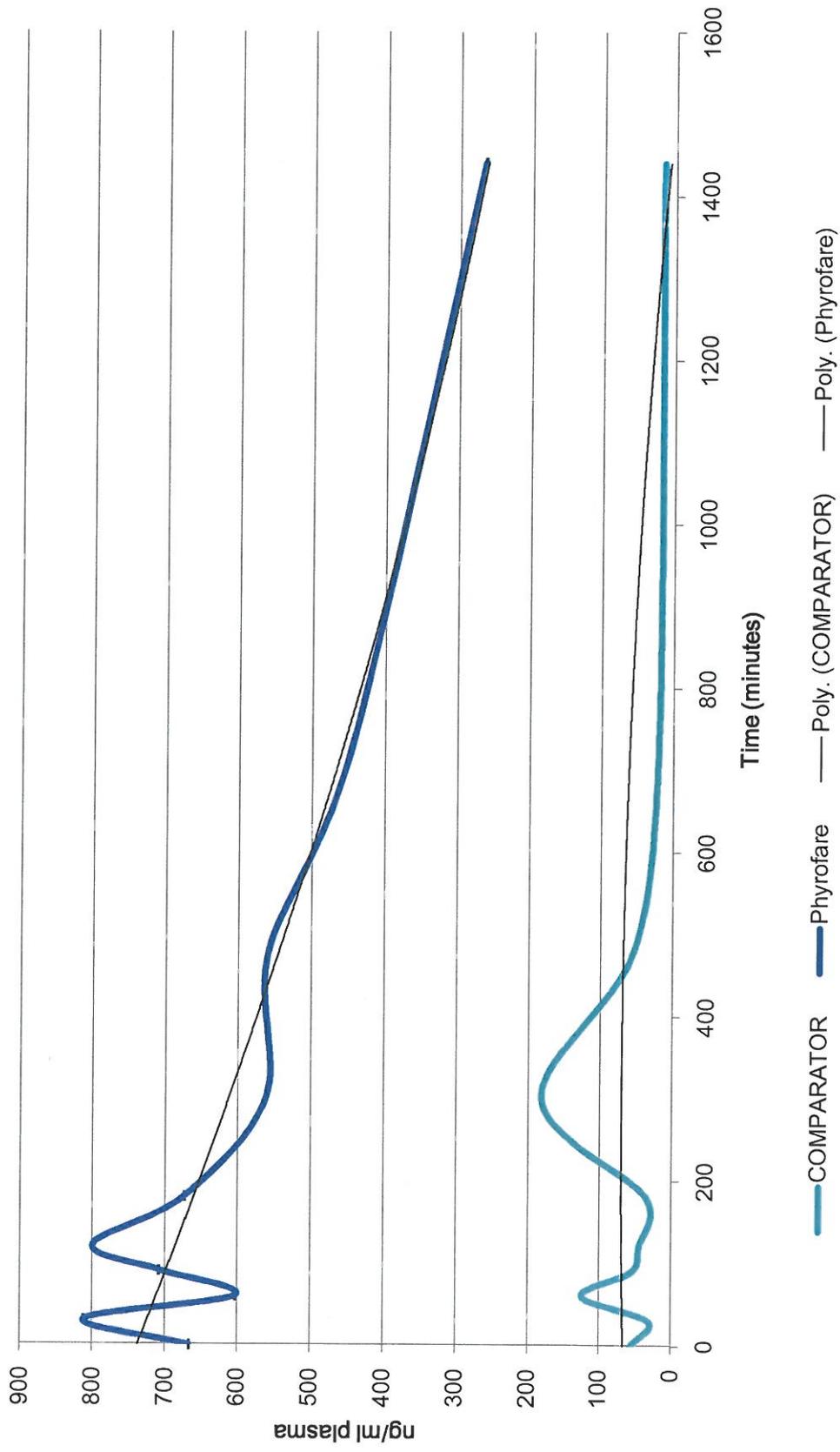
# Gallocatechin

Time concentration curve for gallocatechin



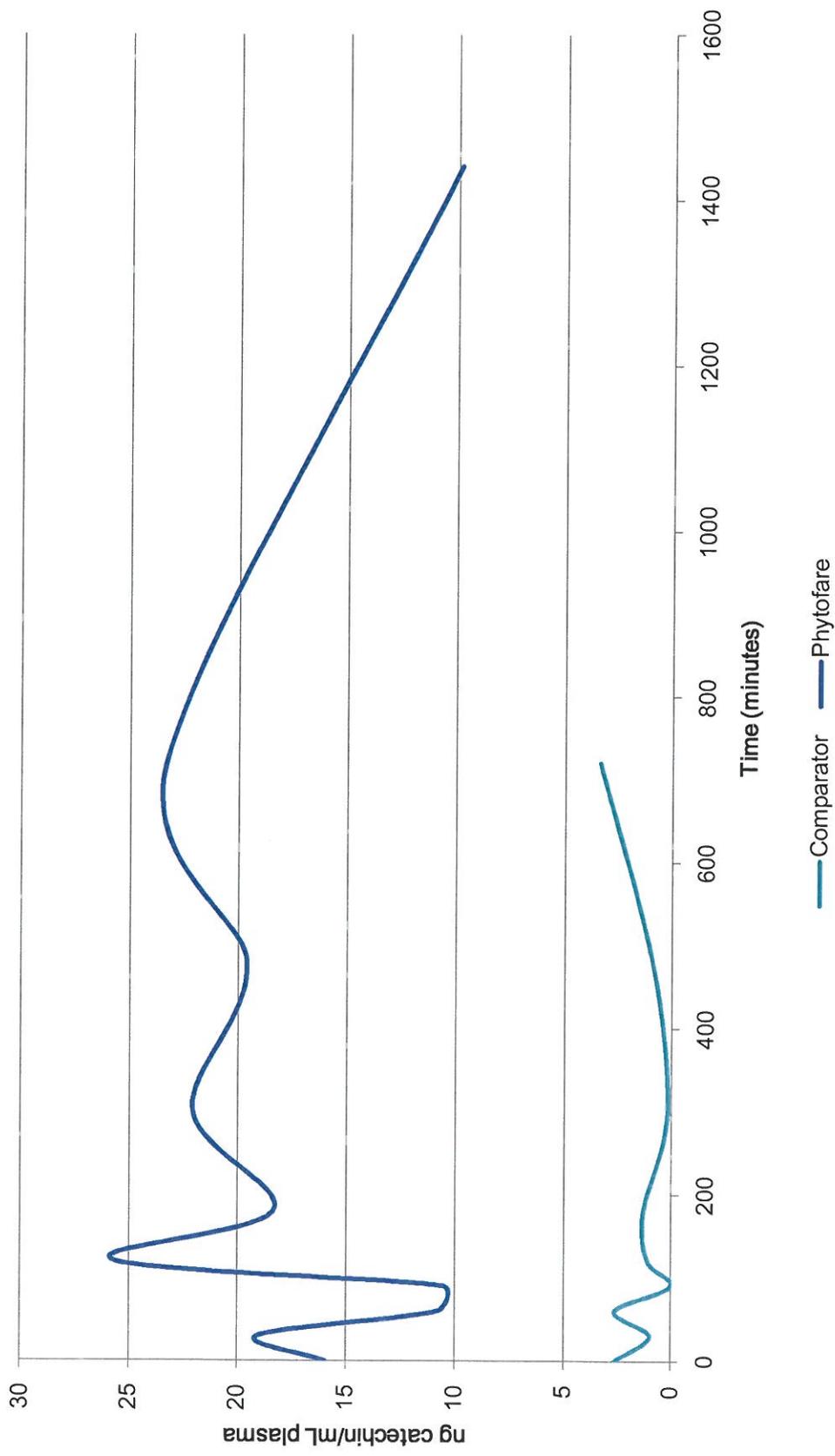
# Epigallocatechin Gallate

Time concentration curve for epigallocatechin Gallate



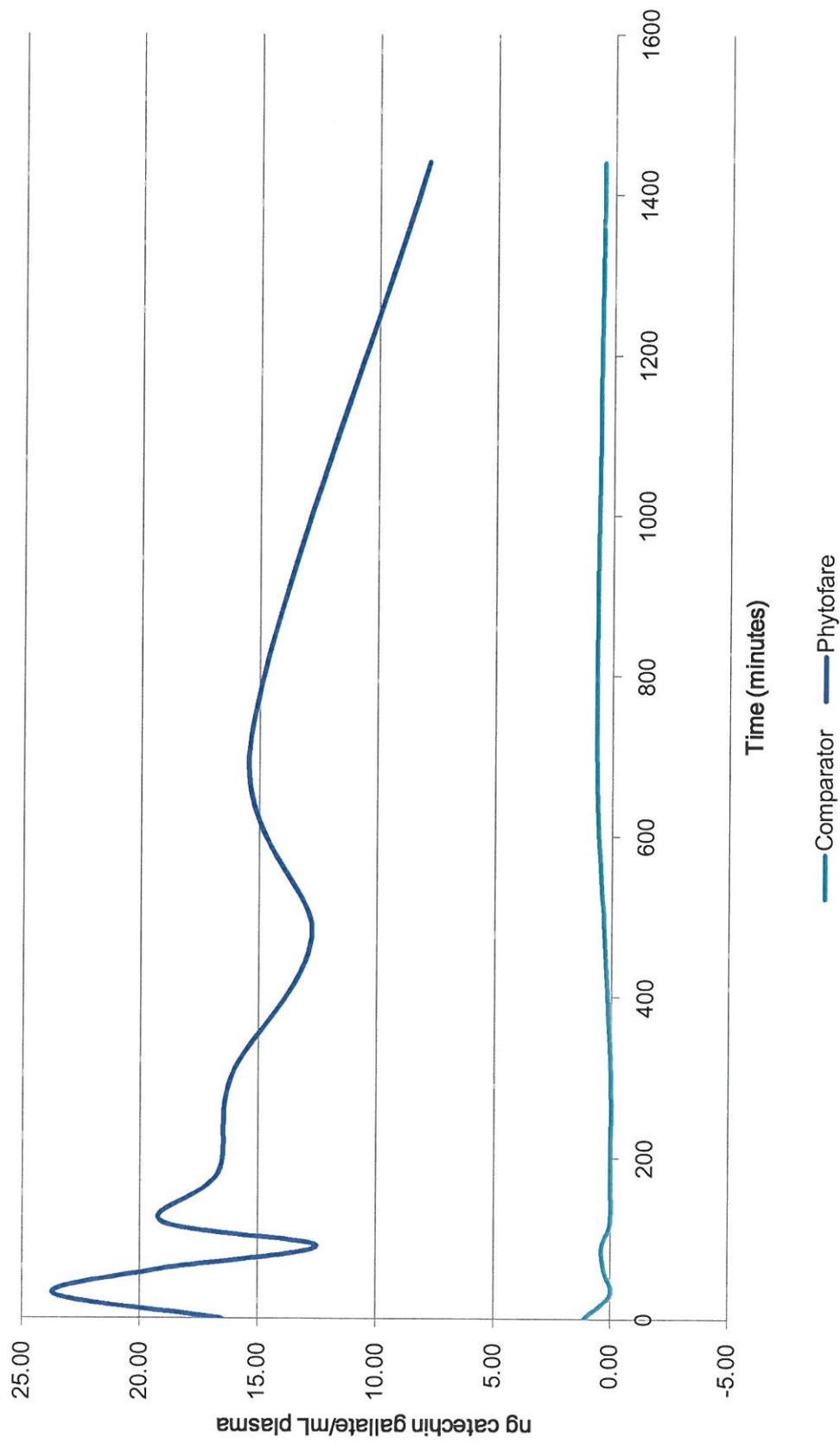
# Catechin

Time concentration curve for catechin



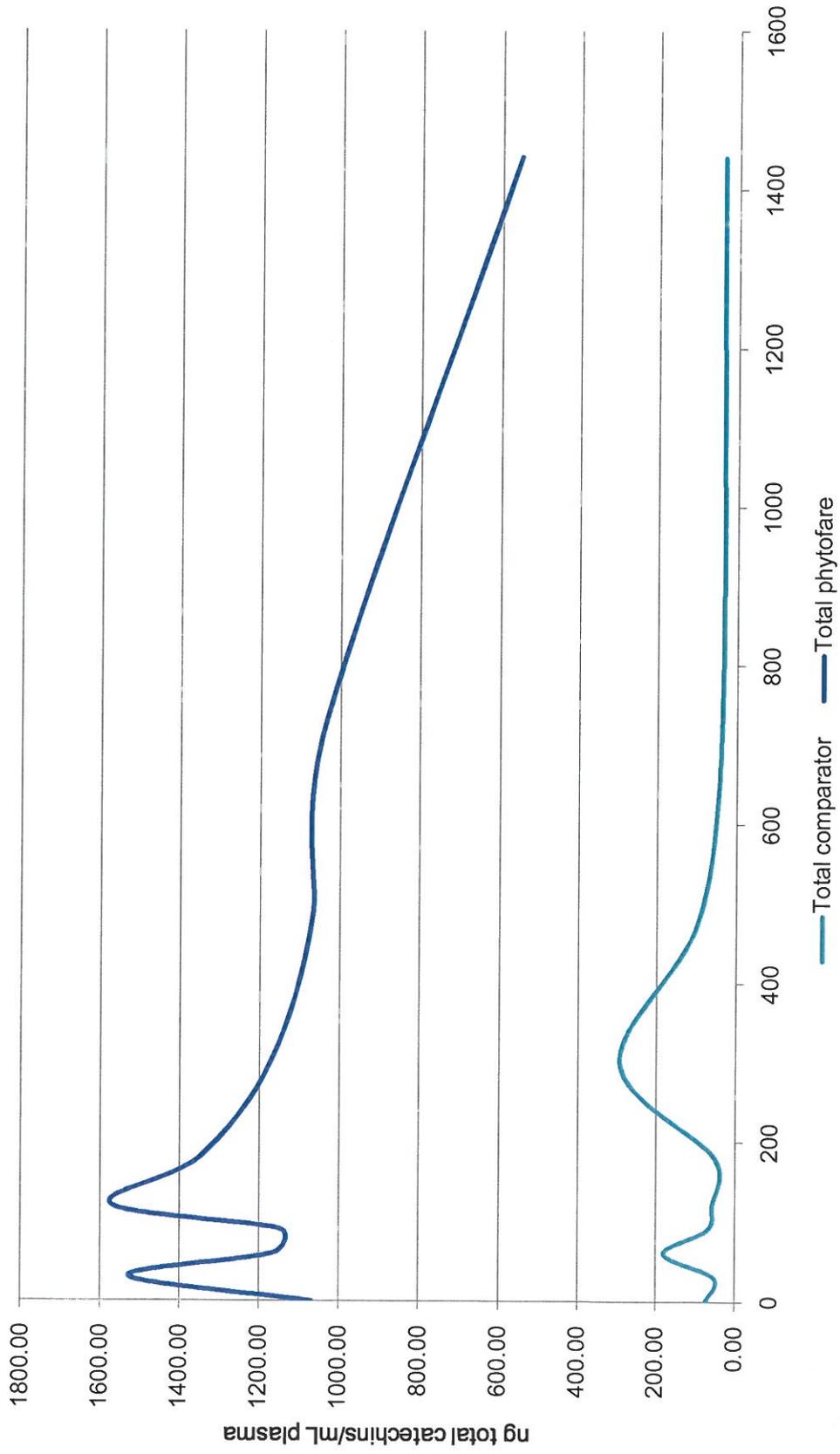
# Catechin gallate

Time concentration curve for catechin gallate



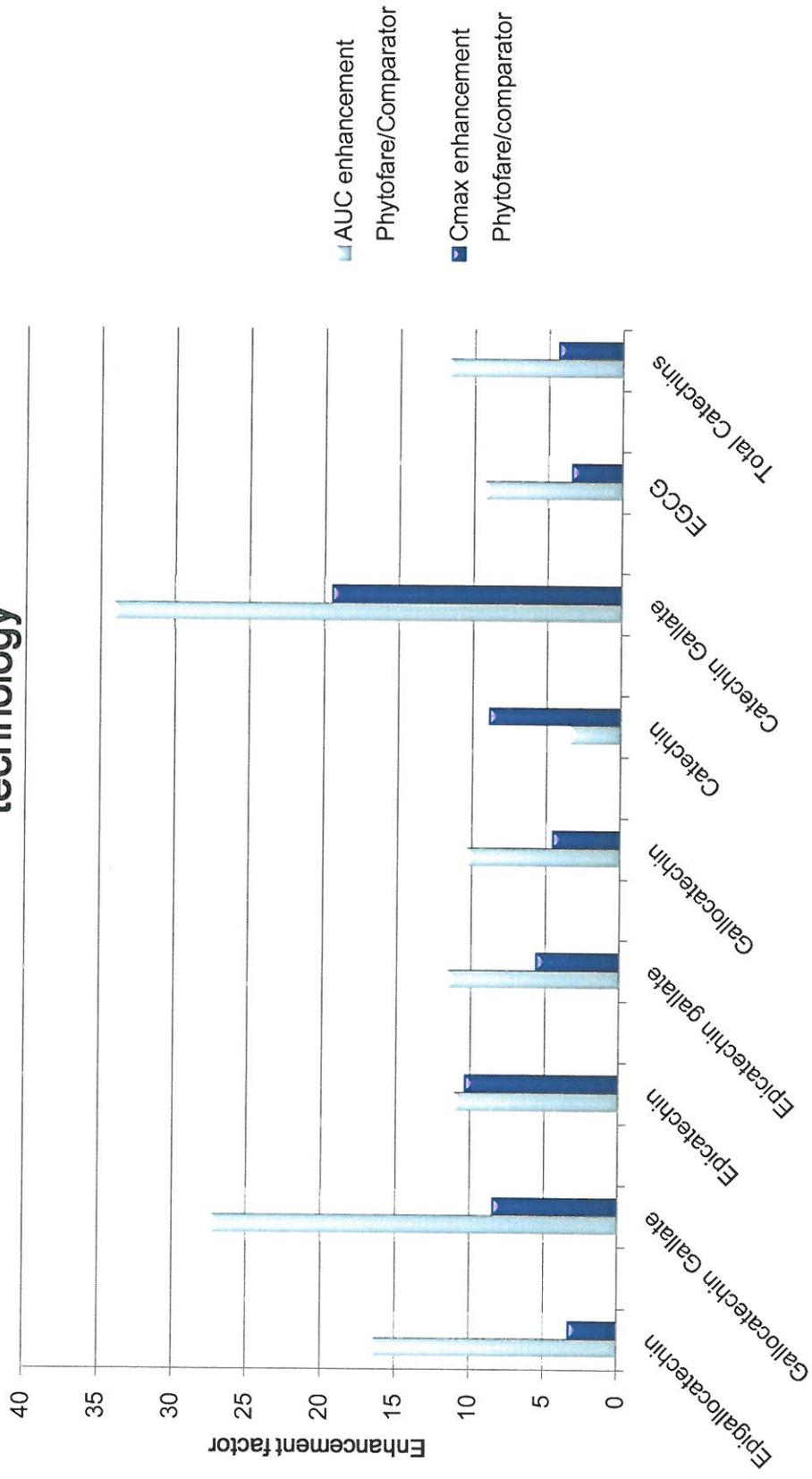
# Total catechins

Total catechins plasma concentration curve



# Bioavailability parameters

## Enhancement in bioavailability parameters by Phytofare technology



# Stability of catechins in oral dosage form

## Comparator (Arm 1) Total catechins

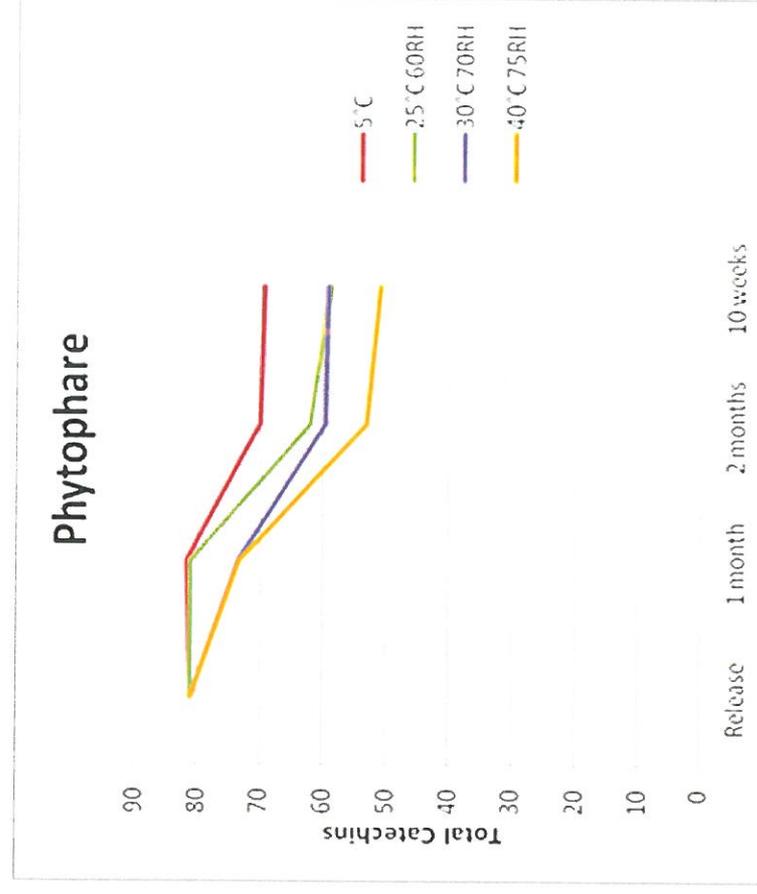
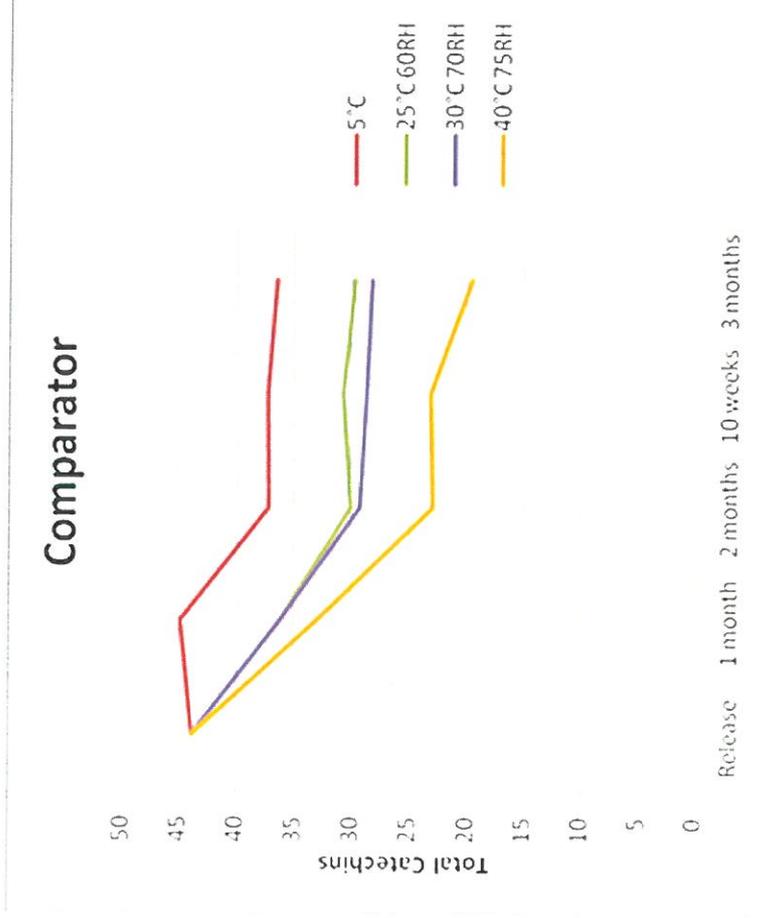
	RT	5°C	25°C 60RH	30°C 70RH	40°C 75RH
Release	43.87				
1 month		44.86	36.23	36.23	33.05
2 months		37.24	30.13	29.35	22.93
10 weeks		37.31	30.72	28.77	23.26
3 months		36.58	29.75	28.25	19.65

## Phytophare™(Arm 2) Total catechins

	RT	5°C	25°C 60RH	30°C 70RH	40°C 75RH
Release	80.17				
1 month		81.82	81.11	73.42	73.30
2 month		70.10	61.95	59.77	53.16
10 weeks		69.47	58.81	59.32	50.99



# Stability at different conditions



Summary of averages of catechin plasma levels of 27 participants in Arm1 and Arm 2 of bioavailability study

	Epigallocatechin		Gallocatechin		Epicatechin		Epicatechin gallate		Gallocatechin		Epigallocatechin Gallate		Catechin Gallate		Catechin Total
	Gallate	Gallate	Gallate	Gallate	Gallate	Gallate	Gallate	Gallate	Gallate	Gallate	Gallate	Gallate	Gallate	Gallate	
	Arm 1 comparator														
0	4.329046522	3.364894444	3.166901808	0.68553204	2.871599038	55.81349281	2.587304	1.153223	73.97199						
30	5.189864739	3.430848148	3.973818538	5.4605438	3.243587808	31.01541423	0.967319	0	53.2814						
60	17.293348	18.51472	3.284550038	4.2935724	9.359092385	124.3441032	2.570527	0.258008	179.9179						
90	4.909934478	3.179661778	3.613761269	1.75028132	1.781572462	54.44890631	0	0.354728	70.03885						
120	3.884502435	2.227287963	3.017345269	0.66263468	2.346169654	44.54078119	1.078098	0	57.75682						
180	1.823318696	3.983795481	2.293445654	0.8632408	6.988078462	35.135012	1.264439	0	52.35133						
300	43.36656783	33.755608	5.932951115	12.4827964	13.93619288	181.8015927	0.167358	0	291.4431						
480	13.38881623	13.90455263	4.323113769	1.39231512	6.750048346	53.14179615	0.894403	0.29729	94.09234						
720	0	1.748987222	4.866421462	3.7830598	3.147277462	20.55152923	3.344317	0.652974	38.09457						
1440	0	0	2.845314	3.49023909	2.5244764	15.81314105	10.68777	0.407091	35.76803						
	Arm 2 phytotofare														
0	139.1803824	134.3514368	25.04551744	40.6492756	29.85986876	667.0030802	15.97629	16.53839	1068.604						
30	163.8963589	296.8870324	54.36912984	79.2727913	78.241966	811.8111496	19.05231	23.66697	1527.198						
60	143.07481	207.3898936	47.83922752	64.7306176	68.71058668	602.5642506	10.76047	19.2879	1164.358						
90	112.2511609	170.6767364	39.34810432	45.2454624	49.41193352	708.588904	10.56557	12.50306	1148.591						
120	182.5792092	321.4884292	67.82588268	83.4464859	72.52834808	799.293133	25.74779	19.11693	1572.026						
180	188.9939956	259.2992784	51.76547812	64.6331049	74.74216284	673.483136	18.34831	16.69795	1347.963						
300	183.3824052	215.8517092	44.85646484	59.8398516	68.06878812	561.588313	22.08759	16.14796	1171.823						
480	115.0864556	196.208338	54.6757824	49.2518473	63.5676978	558.2203143	19.6174	12.74334	1069.371						
720	136.1448891	228.8923016	59.69638384	61.8822168	66.80560772	447.6760672	23.31293	15.3708	1039.781						
1440	75.37593118	116.7211024	33.04991391	18.4122297	24.52287865	264.843207	9.842313	7.892458	550.66						