APPENDIX D

The chemical stability of ethanolic extracts of *A. racemosus.*

The data were expressed as the mean with a standard deviation (SD). Statistical data were analyzed by paired-sample t test. The significance criterion for the correlation measurements was set at 0.05

The statistical chemical stability of ethanolic extracts of *A. racemosus.*

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	AR3E0Day	6.2210	3	.51260	.29595
	AR3E30Day	5.3075	3	.13406	.07740
Pair 2	AR1E0Day	2.0601	3	.25411	.14671
	AR1E30Day	1.6037	3	.64497	.37238

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	AR3E0Day & AR3E30Day	3	-.267	.828
Pair 2	AR1E0Day & AR1E30Day	3	-.972	.151

Paired Samples Test

		Paired Differences							
					95% Confidence Interval of the Difference				
		Mean	Std. Deviation	Std. Error Mean	Lower	Upper	t	df	Sig. (2-tailed)
Pair 1	AR3E0Day - AR3E30Day	.91346	.56341	.32528	-.48613	2.31304	2.808	2	.107
Pair 2	AR1E0Day - AR1E30Day	.45638	.89397	.51614	-1.76437	2.67713	.884	2	.470

The calculation of percent remaining of *A. racemosus* extract

   The percent remaining of *A. racemosus* extract can be calculated by using the equation;

$$\boxed{\text{Percent remaining} = \frac{C_T}{C_I} \times 100}$$

where

   C_I is the percent saponin equivalent to shatavarin IV of *A. racemosus* extract before stability test.

   C_T is the percent saponin equivalent to shatavarin IV of *A. racemosus* extract after stability test.

   If initiation, the % saponin equivalent to shatavarin IV of *A. racemosus* extract at normal condition and % saponin of extract at stress condition was 2.06 mg and 1.60 mg, respectively, therefore, the percent remaining of % saponin in *A. racemosus* extract was calculated as follows:

$$\text{Percent remaining} = \frac{1.60}{2.06} \times 100$$
$$= 77.67$$