



## **Measurement of the S-adenosyl methionine (SAmE) content in a range of commercial veterinary SAmE supplements**

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- The study was funded by PIL but the company had no involvement in the study design, methodology, analysis of the results or the writing of the paper. The study was conducted independently by Dr Sturgess using an independent laboratory (Office S.L. Barcelona).
- The following products were evaluated:
  - Denamarin
  - Doxion
  - Hepatosyl
  - Samylin
  - Zentonil
- The products were acquired through various practices that routinely used the three major veterinary wholesalers in the UK (Centaur, Henry Shein and NVS) so each sample was analysed in triplicate. All samples were sent unopened to a commercial laboratory to be analysed in a single batch.
- The results were expressed as milligrams of SAmE per tablet/capsule/sachet and this was compared to the expected SAmE level as stated on the label.
- The table below shows the mean SAmE expressed as a percentage of the expected amount (labelled strength) with minimum and maximum values, and standard deviation:

<b>Product</b>	<b>Mean %</b>	<b>Minimum %</b>	<b>Maximum %</b>	<b>Standard Deviation</b>
Denamarin	108.9	102.2	118.7	5.3
Doxion	96.3	89.0	103.1	5.3
Samylin	96.0	86.6	105.3	5.2
Zentonil	77.2	44.5	88.6	11.3
Hepatosyl	39.2	36.8	42.2	1.7

Figure 1 – Measured SAME expressed as a percentage of the expected amount by each product group. Central line represents the mean value; line represents the range between the minimum and maximum percentage values.

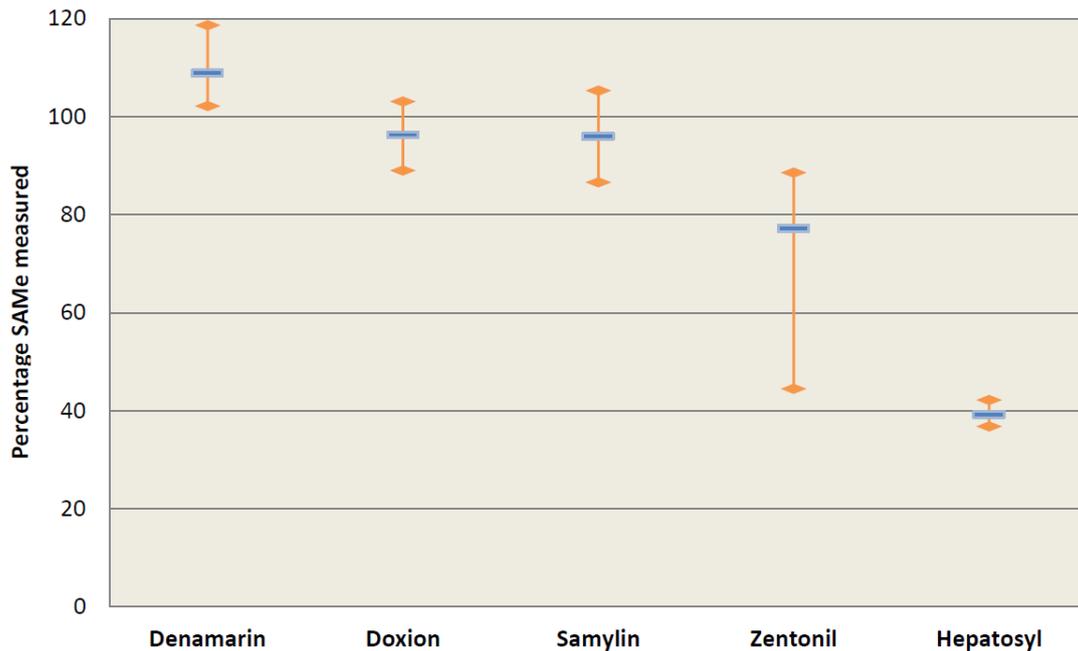
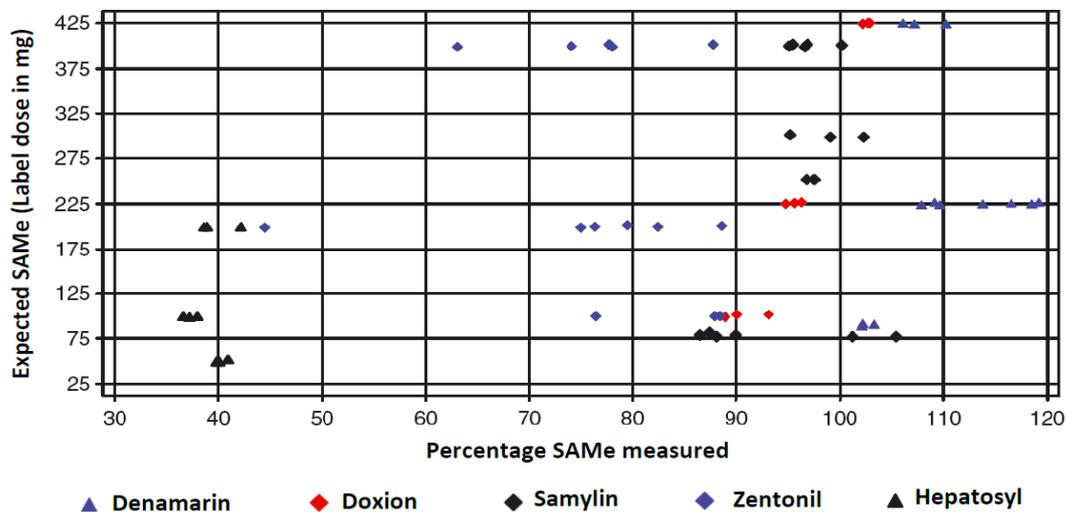


Figure 2 – Scatterplot of individual product SAME amounts measured in 64 samples showing the variability in measured content compared to expected content (label dose).



- Conclusions – Of the products tested, only Denamarin consistently achieved or exceeded SAME levels stated on the label (108.9%). Both Doxion and Samylin averaged 96% of the levels stated on the label. Zentonil (77.2%) and Hepatosyl (39.2%) contained levels of SAME that were significantly lower than expected based on the levels stated on the product packaging.