CURESUPPORT
IT'S ALL ABOUT ABSORPTION

Research report: vitamin C beadlets release profile

By: R&D Department CureSupport
Date: 21-11-2024
Version: Final

Goal:
Determine the release profile of the active ingredient (vitamin C) from the beadlets.

Method:
Standard RC tubing for dialysis (MWCO: 12-14 kD) was cleaned by soaking it in demi water (5L) for 0.5h, after which the water was refreshed and left for an additional hour. The beadlets were added to the tubing together with tapwater (50 ml). The tubing was sealed and submerged in tapwater (500 mL). Samples (50 mL) were taken at each interval. The samples were sent to TLR for analysis. The amount of loss of iron by the samplesize was calculated to be below 5% and thus neglected.

Results:
The results of the vitamin C release are depicted in figure 1. It can be seen that most of the vitamin C is released almost immediately. After the initial release the release of vitamin C becomes more linear.

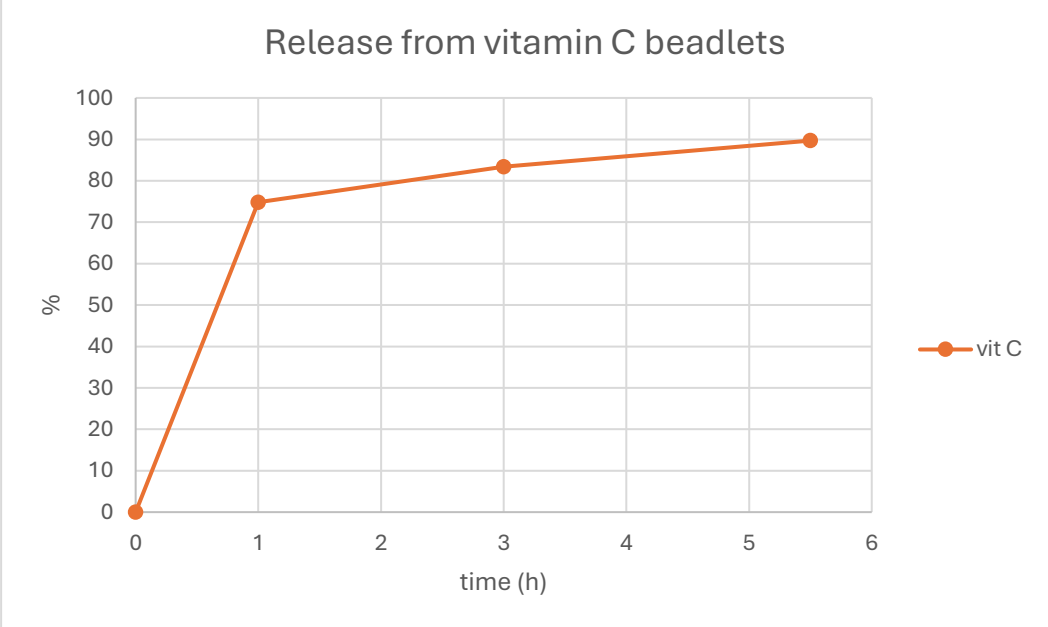

Figure 1: release of vitamin C from beadlets over time

Conclusion:
Vitamin C is released from the beadlets as expected. Starting with a high initial unloading followed by a more steady graduated release.

CureSupport Nederland B.V.
Bergweidedijk 7
7418AB, Deventer
Coc: 81439822

Phone: +31 (0)850471801
www.curesupport.com
info@curesupport.com

Bank: NL60RABO0102487332
VAT: NL862092541B01
BIC/SWIFT:RABONL2U