

Vitamin B12 extraction at different parameters

Parameter that give a higher [CNCbl] was at 25:75 % solvent:solvent, 3

Oven-dried boiled sample

exhibited the highest [CNCb] which was 0.021 mg/mL

g:60 mL solute:solvent, at pH 3

Purification of vitamin B12 extracts

2-Level Factorial experimental design by RSM

Qualitative and quantitative analysis by HPLC, and statistical analysis