Weight of krill lipids in filter agitation acetone technique

Cup 7: 1.0548g – 0.9864g = 0.0684g
Cup 8: 1.0561g – 0.9860g = 0.701g
Cup 9: 1.0566g – 0.9886g = 0.068g

X = 0.0688g

% of krill lipids of the dry polytron weight acetone technique

0.799g/2ml = x/10ml x = 0.3995 g

0.3995g/5g = x/100g x= 7.99%

% of krill lipids of dry weight agitation acetone technique
0.1973g / 2 ml = x/ 10ml x = 0.9865g
29/7/98: 7 mL instead of 10 mL? 13.81% rather than 19.73%. Where did the 3mls that SI pipetted go? 10 ml acetone. X = 19.73%

0.9865g/5g = x / 100g

% of krill lipids of the dry polytron filter weight acetone technique
0.0760g/2 mL = x/ ml x = 0.3800g

0.3800/5g = x/100g x=7.6%
% of krill lipids of the dry filter weight agitation acetone technique

0.0688g/ 2 mL = x/10 mL x = 0.3440g
0.3440g/5g = x/100g x=6.88%

6/3/98 Results: acetone technique yield
Krill homogenized to polytron: 7.99 g lipids/ 100g dry weight
Krill homogenized by agitation: 19.73g lipids/ 100g dry weight
Results: acetone and contents technical yield
filtered in ethanol re-suspension MeOH
Krill homogenized polytron: 7.99 lipids /100g dry weight + 7.60g lipids/ 100g dw = 15.59g/ 100g
See 2nd and 3rd trials -> Krill homogenized agitation: 19.73g lipids/100g dw + 6.88g lipids 100g dw = 26.61g/ 100g dw

OK 9/3/98 re-done

Experiments to be done: re-do extraction with 5 g acetone dry krill agitation (given the 19.73% result) 3/10/98 recovery ethanol filter deposit OK 3/9/98 re-done
Re-do extraction OK

Chloromethanol (to validate the results) 9/9/98 re-done
Do acetone extraction
[*notes in the side margins; cut off so it's just the translation of the visible words:* And to verify the impact of the solvent volume on the efficacy of the extraction]
Ethanol 1:1 (50 mL total) 10/3/98 re-done rinse with 25 mL total
Change the solvent volumes (double 100 mL)

6/3/98
After evaporation, re-suspend in 10mL acetone-ethanol 1:1
12/3/98 done fresh krill acetone technique
Procedure (1st trial): weigh 25g fresh krill 25.08g
225 mL pure cold (freezer) acetone
agitation 20 min (27 min)

*← vacuum filtration ~~and recovery of the filter deposit~~ (not the first time) rinse cold acetone /illegible English addition/
Up to 85 C° Evaporation acetone (revolving evapo) pay attention to bubbles
Vacuum = ? No bubbles
11/3/98
Cold the H_2O lipid mixture on ice
Add hexane or pentane 25 mL
To H_2O – lipids mixture
Decantation ampulla, mix
See p. 15
Collect lipids and hexane
Evaporation (rotating evapo)
Re-suspend 10mL hexane
Vacuum evaporation

Filter deposit re-suspend mix 100 mL EtOH
2 papers Whatman 12.5cm 202
Ordinary filtration keep powder good for fish
11/3/98 Vacuum =? Evaporation
We had to heat a lot to compensate for the mediocre vacuum
85°C bath water
Re-suspension ethanol 10 mL
Evaporation
Weighing lipids, average
Chloro technique MeOH
6/3/98: Preparation of the egg lipids (standard)
1 egg yolk transfer pipette
Chloro 50 mL
Methanol 25 mL
15 mL saline
mix decantation ampulla
let it separate | one weekend
9/3/98 Evaporation (rotating evaporation)
Re-suspension 10 mL chloroforme – methanol 1:1
3 samples of 2mL each
Transfer each 2 mL in aluminum cups
Evaporation without N
Egg ← Weighing lipids, average
Tech. chloro – MeOH Egg
Cup 1 1.0150g 1.1548g 1.1777 with lipids 1.1667g 1.1670g
Cup 2 1.0154g 1.1642g 1.1737g 1.1644g 1.1659g
Cup 3 1.0134g 1.1621g 1.1758g 1.1652g 1.1623g

6/3/98 Look for Medline acetone
Acetone toxicity
Lipids classes
Calamus

6/3/98 Calculations: krill lipids weight technique chloroforme methanol)
Cup 1: 1.1470g – 0.9927g = 0.1543g
Cup 2: 1.1447g – 0.9891g = 0.1556g
Cup 3: 1.1709g – 1.0155g = 0.1554g
X = 0.1551g

% of lipids in dry weight chloro-MeOH technique
0.1551g/2mL = x/ 10 mL x= 0.7755g 0.7755g/5g = x/100g x= 15.51%
Result: chloroforme-methanol technical yield
15.51 g lipids/ 100g krill dry weight

9/3/98 Notes: possibility of water in the egg lipids, chloroform, methanol, saline solution since the mixture was boiling at evaporation under rotating evaporator (perhaps because I washed the bubble with water)

	Empty 11/3/98	with lipids 10/3/98			
Cup 4	1.0160g	1.0976g	1.0971g	1.0958g	1.0959g
Cup 5	1.01~~5~~31g	1.0956g	1.0938g	1.0965g	1.0973g
Cup 6	1.0190g	1.0977g	1.0997g	1.0995g	1.0993g

Note: instead of letting it rest for one night, the ampulla solution (methanol chloroform recovery method from 5/3/98 and 6/3/98) rested 5 and a half hours.

Cup 7	1.0218g	1.1778g	1.1687g	1.1654g
Cup 8	1.0188g	1.1788g	1.1679g	1.1668g
Cup 9	1.0227g	1.1826g	1.1729g	1.1719g

10/3/98 Calculations: egg lipids weight chloroform methanol technique
cup 1: 1.1670-1.0150g = 0.1520g
cup 2: 1.1659g – 1.0154g = 0.1505g
cup 3: 1.1623g – 1.0134g = 0.1489g

x= 0.1505g

% of egg lipids of dry weight with chloro-MeOH technique

0.1505g/2 mL = x/10mL x=0.7525g

0.7525g/5g = x/100g x = 15.05%

(transfer pipette)

10/3/98 Calculations: Krill lipids weight chloro-MeOH technique 2nd trial
Cup 7: 1.1687g – 1.0218g = 0.1469g
Cup 8: 1.1679g – 1.0188g = 0.1491g
Cup 9: 1.1729g – 1.0227g = 0.1502g
X = 0.1487g

% krill lipids dry weight chloro-MeOH technique
0.1487g/2 mL = X/ 10 mL x= 0.7435g

0.74325g / 5g = x/100g x= 14.87%

10/3/98 empty 12/3/98 with lipids 11/3/98
filter deposit agitation acetone technique 2nd trial 10/3/98

Cup 1: 1.0268g	1.1348g	1.1679g	1.1388g	1.1347g
Cup 2: 1.0275g	1.1342g	1.1518g	1.1390g	1.1364g
Cup 3: 1.0250g	1.1316g	1.1525g	1.1370g	1.1323g (2nd trial)

Calculations: krill lipids weight agitation acetone technique

Cup 4: 1.0959g – 1.0160g = 0.0799g
Cup 5: 1.0973g – 1.0131g = 0.0842g
Cup 6: 1.0993g – 1.0190g = 0.0803g X=0.0815g

Krill lipids weight in filter agitation acetone technique 2nd trial
Cup 1: 1.1388g – 1.0268g = 0.1120g
Cup 2: 1.1390g – 1.0275g = 0.1115g
Cup 3: 1.1370g – 1.0250g = 0.1120g X=0.1118g
% of krill lipids of dry weight agitation acetone technique 2nd trial
0.0815g/2mL = X/10 mL x= 0.4075g
0.4075g/5g = x/100g x=8.15% (next page)

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