

Weight of krill lipids in filter agitation acetone technique

Cup 7: $1.0548\text{g} - 0.9864\text{g} = 0.0684\text{g}$

Cup 8: $1.0561\text{g} - 0.9860\text{g} = 0.701\text{g}$

Cup 9: $1.0566\text{g} - 0.9886\text{g} = 0.068\text{g}$

$X = 0.0688\text{g}$

% of krill lipids of the dry polytron weight acetone technique

$0.799\text{g}/2\text{ml} = x/10\text{ml}$ $x = 0.3995\text{ g}$

$0.3995\text{g}/5\text{g} = x/100\text{g}$ $x = 7.99\%$

% of krill lipids of dry weight agitation acetone technique

$0.1973\text{g} / 2\text{ ml} = x / 10\text{ml}$ $x = 0.9865\text{g}$

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. $X = 19.73\%$

$0.9865\text{g}/5\text{g} = x / 100\text{g}$

% of krill lipids of the dry polytron filter weight acetone technique

$0.0760\text{g}/2\text{ mL} = x / \text{ml}$ $x = 0.3800\text{g}$

$0.3800/5\text{g} = x/100\text{g}$ $x = 7.6\%$

% of krill lipids of the dry filter weight agitation acetone technique

$0.0688\text{g} / 2\text{ mL} = x / 10\text{ mL}$ $x = 0.3440\text{g}$

$0.3440\text{g}/5\text{g} = x/100\text{g}$ $x = 6.88\%$

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

08

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 H₂O lipid mixture on ice

Add hexane or pentane 25 mL

To H₂O – 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: $1.1470\text{g} - 0.9927\text{g} = 0.1543\text{g}$

Cup 2: $1.1447\text{g} - 0.9891\text{g} = 0.1556\text{g}$

Cup 3: $1.1709\text{g} - 1.0155\text{g} = 0.1554\text{g}$

X = 0.1551g

% of lipids in dry weight chloro-MeOH technique

$0.1551\text{g}/2\text{mL} = x/10\text{ mL}$ $x = 0.7755\text{g}$ $0.7755\text{g}/5\text{g} = x/100\text{g}$ $x = 15.51\%$

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 1.01531g 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: $1.1670 - 1.0150\text{g} = 0.1520\text{g}$

cup 2: $1.1659\text{g} - 1.0154\text{g} = 0.1505\text{g}$

cup 3: $1.1623\text{g} - 1.0134\text{g} = 0.1489\text{g}$

$x = 0.1505\text{g}$

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

$0.1505\text{g}/2\text{ mL} = x/10\text{mL}$ $x = 0.7525\text{g}$

$0.7525\text{g}/5\text{g} = x/100\text{g}$ $x = 15.05\%$

(transfer pipette)

10/3/98 Calculations: Krill lipids weight chloro-MeOH technique 2nd trial

Cup 7: $1.1687\text{g} - 1.0218\text{g} = 0.1469\text{g}$

Cup 8: $1.1679\text{g} - 1.0188\text{g} = 0.1491\text{g}$

Cup 9: $1.1729\text{g} - 1.0227\text{g} = 0.1502\text{g}$

$X = 0.1487\text{g}$

% krill lipids dry weight chloro-MeOH technique

$0.1487\text{g}/2\text{ mL} = X/10\text{ mL}$ $x = 0.7435\text{g}$

$0.74325\text{g}/5\text{g} = x/100\text{g}$ $x = 14.87\%$

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 (2 nd trial)

Calculations: krill lipids weight agitation acetone technique

Cup 4: $1.0959\text{g} - 1.0160\text{g} = 0.0799\text{g}$

Cup 5: $1.0973\text{g} - 1.0131\text{g} = 0.0842\text{g}$

Cup 6: $1.0993\text{g} - 1.0190\text{g} = 0.0803\text{g}$ $X = 0.0815\text{g}$

Krill lipids weight in filter agitation acetone technique 2nd trial

Cup 1: $1.1388\text{g} - 1.0268\text{g} = 0.1120\text{g}$

Cup 2: $1.1390\text{g} - 1.0275\text{g} = 0.1115\text{g}$

Cup 3: $1.1370\text{g} - 1.0250\text{g} = 0.1120\text{g}$ $X = 0.1118\text{g}$

% of krill lipids of dry weight agitation acetone technique 2nd trial

$0.0815\text{g}/2\text{mL} = X/10\text{ mL}$ $x = 0.4075\text{g}$

$0.4075\text{g}/5\text{g} = x/100\text{g}$ $x = 8.15\%$ (next page)

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