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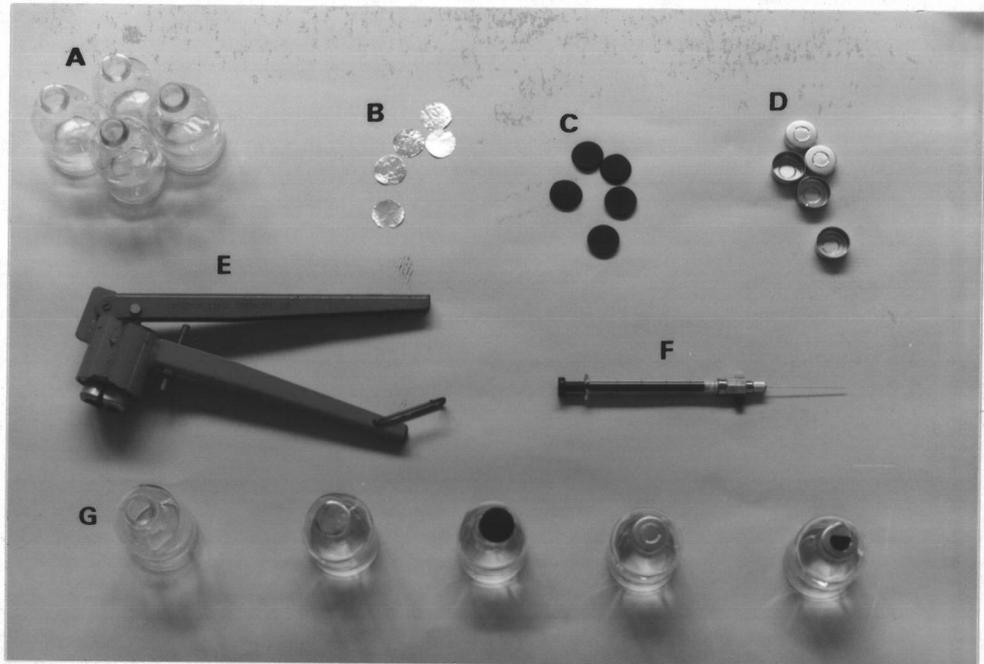
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APPENDIX

APPENDIX A

The materials used in this headspace technique.



- A : 60 mL Serum vial; Hieght = 70 mm., Base diameter = 40 mm.
B : Aluminum foil; Diameter = 18 mm., Thickness = 0.02 mm.
C : Black rubber septum; Diameter = 18.0 mm., Thickness = 3.3 mm.
D : Aluminum cap; Diameter = 18.0 mm.
E : Manual Hand Operated Crimper.
F : Pressure-Lok series A2 gas tight syringe 2.00 mL.
G : The procedure of sealed serum vial for headspace study.

APPENDIX B

The Calibration of the Volume of Serum Vial Used in the Study.

The volume of serum vials used in the study was calibrated by the procedure as described in the following :

1. Weigh an empty serum vial.
2. Fill the vial with distilled water up to the brim.
3. The difference between weight of the vial filled with the water and the weight of empty vial is equal the weight of water in vial.
4. Knowing the density of water, the volume of the vial could be determined by the following equation

$$D = \frac{W}{V}$$

where D = the density of water.

W = the weight of water in vial.

V = the volume of serum vial.

VITA

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