FOR IMMEDIATE RELEASE

NuSep Small Holding Share Buy Back

SYDNEY, AUSTRALIA – 11th August 2010 – NuSep (ASX: NSP). Further to our announcement on Friday 30th July 2010, attached are the relevant documents that have been forwarded to shareholders in relation to small holding share buy back.

Investor Presentation

Please be advised that NuSep will hold two investor presentations on 17th August 2010 (in Sydney) and 18th August 2010 (in Melbourne). These presentations will address the full year results, the projections for the 2011 financial year and an update on developments. You are cordially invited to these presentations if you are looking for more information before making a decision regarding this buy back offer. If you wish to attend please contact Denise Dubinovsky at NuSep as places are limited. Denise can be contacted at:

Denise Dubinovsky
Phone: +61 2 8197 3377
Email: denise.dubinovsky@nusep.com

About NuSep

NuSep (ASX: NSP) is a publicly listed life sciences company that sells products into the global BioSeparations market. NuSep recently acquired BioInquire which developed the ProteoIQ software enabling NuSep to offer a total Proteomics solution from ***Fraction to Function***. The company has offices in both Sydney Australia and Atlanta, USA.

With a 30 year heritage in biological separations, NuSep has forged a world class reputation for its innovative yet simple biological separation techniques including the world's first IVF sperm separation device. In short NuSep has redefined the BioSeparations market through innovation and simplification.

NuSep's world renowned research team has developed an extensive portfolio of patented products. In all, NuSep currently manufactures, distributes and sells 55 products to customers in the USA, Europe, Asia and Australia.

NuSep Products:

- **Gels** – NuSep manufactures and sells precast gels including the innovative NUView Gels, which can be visualised 2 minutes after use.
- **Separation Instruments** – NuSep has developed two unique biological separation instruments. The ProteomeSep was released in 2009 and can separate biological

samples into 8 fractions for use in the proteomic market. The SpermSep separates sperm for fertility treatments such as IVF and is expected to undergoing clinical trials later this year.

- **Proteomics Software** – NuSep offers the unique ProteoIQ software for the analysis of complex mass spec samples. This software is also designed to identify bio markers.
- **Biological Products** – NuSep supplies research grade biological products manufactured using its unique separation technologies. These products include human IgG and Albumin.

For more information about NuSep please visit the company's website www.NuSep.com

Contact:
Prakash Patel
Chief Financial Officer & Company Secretary
+61 2 8197 3377
prakash.patel@nusep.com

Wednesday 11th August 2010

Dear Shareholder,

Small Holding Share Buy Back

Further to its announcement on Friday 30th July 2010, NuSep Holdings Limited (**NuSep**) is now in a position to provide further details as to the proposed buy back of shares from shareholders who hold a "Small Holding" or less in the company. A "Small Holding" is defined in NuSep's constitution as a parcel of securities with a value of less than $100.

In accordance with the ASX listing rules and clause 106 of NuSep's Constitution, NuSep is authorised to buy back Small Holding parcels of shares held by shareholders, unless the shareholder notifies NuSep that it wishes to retain the shares.

As previously advised, NuSep is proposing the buy back to assist NuSep in reducing its costs related to shareholder reporting. NuSep's focus is to build a shareholder base with active investors who understand the Bio Separations market and intend to lend their long term support to NuSep as shareholders.

The buy back has been instituted to enable Shareholders holding a Small Holding to realise their shares without brokerage and other expenses and to reduce the administrative and registry costs associated with the shares.

As at 3rd August 2010 the closing price of NuSep's shares on the ASX was 22¢ (**Closing Price**) and, on this basis, a Small Holding is 455 shares or less. As at Friday 30th July 2010 you held (__) Fully Paid Ordinary shares in NuSep.

The buy back will enable holders of Small Holdings as at Monday 23rd August 2010 to sell their full holding back to NuSep for 22¢ per share, representing a premium above the last market price of 19.5¢ per share at which NuSep's shares traded when the buyback announcement was made on 30th July 2010.

NuSep Holdings Ltd
324 Burns Bay Rd
Lane Cove NSW 2066

Postal Address
P.O. Box 823
Lane Cove NSW 1595

Contact Details
Telephone +61 2 8197 3377
Facsimile +61 2 9427 8614

Email info@nusep.com
Web www.nusep.com
ABN 33 120 047 556

On the basis of the Closing Price and the register of members of NuSep as at 30th July 2010:

1. 1,159 shareholders of NuSep hold a Small Holding or less equating to approximately 110,908 ordinary shares which in total represents less than 0.18% of the company's issued capital; and

1. the aggregate value of the ordinary shares held by holders of Small Holdings is $24,399.76. NuSep's share registry shows that the number of shares held by you in the company as at 5.00pm (EST) on 30th July 2010 is valued at less than $100. Shareholders who own more than 455 ordinary shares in NuSep are not eligible to participate in the buy back.

What do you do if you wish to accept the buy back offer?

Shareholders who receive this offer and who wish to participate in the Small Holding buy back **do not need to take any further action**.

What do you do if you do not wish to accept the buy back offer?

Shareholders who do not wish to participate in the buy back must:

1. Return the attached Notice of Retention by no later than 5.00pm on Monday 24th September 2010; or

2. Sell the shares that they hold in NuSep on the ASX; or

3. Purchase additional ordinary shares in NuSep on the ASX so that the shareholder holds more than a Small Holding of shares on or before Monday 24th September 2010.

If you do not do any of the above by 27th September 2010, your shares in NuSep will be purchased by NuSep. If NuSep purchases your shares as part of the buy back, NuSep will post a cheque to you representing the proceeds of the purchase to you on 15th October 2010.

NuSep confirms that there will be no brokerage fees payable by shareholders whose shares are purchased by NuSep under the buy back. All shares purchased by NuSep under the buy back will be cancelled immediately.

NuSep is not providing any tax advice as to the implications of the buy back of your shares. If you require information regarding the possible tax implications for the sale of your shares under the buy back, please contact your professional advisor.

Critical Event	Date
Letter sent to NuSep shareholders about buy back	**Wednesday 11th August 2010**
Last day to return Notice of Retention for those shareholders wishing to retain their Small Holding	**Friday 24th September 2010**
Buy back of ordinary shares by NuSep occurs	**Monday 27th September 2010**
Cheque posted to shareholders participating in the buy back	**Friday 15th October 2010**

NuSep Shareholder Presentations

Please be advised that NuSep will hold two investor presentations on 17th August 2010 (in Sydney) and 18th August 2010 (in Melbourne). These presentations will address the full year results, the projections for the 2011 financial year and an update on developments. You are cordially invited to these presentations if you are looking for more information before making a decision regarding this buy back offer. If you wish to attend please contact Denise Dubinovsky at NuSep as places are limited. Denise can be contacted at:

Denise Dubinovsky
Phone: +61 2 8197 3377
Email: denise.dubinovsky@nusep.com

Yours faithfully,

John Manusu
Executive Chairman

Notice of Retention

Please complete and sign this Notice of Retention if you wish to retain your 'Small Holding' parcel and return it to NuSep Holdings Limited by post or facsimile BY NO LATER THAN 5.00PM (AEST) on 24th September 2010

In person: NuSep Holdings Limited
324 Burns Bay Rd
Lane Cove NSW 2066

Facsimile: **+61 2 9427 8614**

Post: NuSep Holdings Limited
PO 823
Lane Cove NSW 1595

Date:

NuSep Holdings Limited
324 Burns Bay Rd
Lane Cove NSW 2066

NOTICE OF RETENTION

In accordance with clause 106(c) of the NuSep Holdings Limited constitution, I/we give notice to the company that I/we wish to retain my/our shareholding in NuSep Holdings Limited (ACN: 120 047 556).

A. Individual/Joint applications

Title or Company Name Given Name(s) Surname

Joint Applicant 2 or Account Designation

Joint Applicant 3 or Account Designation

HIN/SRN

Number of Shares held

B. Enter your postal address – include State and Postcode

Unit Street Number Street Name or PO Box/Other

City/Suburb/Town

State

Postcode

C. Signature(s)

Individual or Shareholder 1

Shareholder 2

Shareholder 3

Director

Director/Secretary

Sole Director &Secretary

Company Seal (if required)

Daytime Telephone Number

Area Code

Telephone