



ASX Release

NEW MEMBRANE DEVELOPMENT WITH THE UNIVERSITY OF MELBOURNE CHEMICAL ENGINEERING DEPARTMENT

Sydney, Monday 24 August 2015

NuSep Holdings Limited (ASX:NSP) advises that it has signed a research collaboration agreement with The University of Melbourne Department of Chemical and Biomolecular Engineering for the development of new and improved hydrogel membranes. NuSep is seeking to develop new membranes with greatly improved bio-compatibility and greater ability to cost-effectively manufacture at large scale. Researchers within the Chemical Engineering Department at the University of Melbourne originally developed the current polyacrylamide membranes used by NuSep and its spin-out, PRIME Biologics Pty Ltd.

NuSep has been working on the new membrane for the past 12 months and has been successful in developing a product in the laboratory that has the potential to not only have greatly improved bio-compatibility, but also provide the ability for it to be applied to a wider variety of applications and to be scaled, with both lower raw material and processing costs.

The services to be provided by The University of Melbourne Chemical and Biomolecular Engineering Department include:

- Characterisation of a new hydrogel membrane already developed by NuSep which is to be used in the next generation of the current SpermSep device,
- Refinements in the membrane's chemical formulation to enable changing the membrane pore size for new separations beyond SpermSep's requirements.

Alison Coutts, Executive Chairman of NuSep and an alumnus of The University of Melbourne Chemical Engineering Department, said "We are excited to reinstate this collaboration which led to the original development of NuSep's core technology. The Chemical Engineering Department is renowned for its hydrogel membrane research. The development of the new membrane will advance NuSep's SpermSep technology. Additionally, the further work to be undertaken with The University of Melbourne to prove up the technology could open up new means for NuSep to produce commercially attractive bio-separation products and there are also other possibilities for entirely new therapeutic applications."

Professor Sandra Kentish, Head of the University of Melbourne Chemical and Biomolecular Engineering Department and leader of the research team, said, "Innovation is critical to Australia's future. This partnership gives us a unique opportunity to become involved with a company that is at the forefront of manufacturing innovation. Our research team, which includes Professor Greg Qiao and Associate Professor Sally Gras, will work to both ensure that the new NuSep membrane can reach its commercial potential and to expand the use of this material to other applications."

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