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Title: A method for measurement of the bubble formation threshold in biological liquids

Authors: Bjorno, L
Kornum, LO
Krag, P
Nielsen, CH
Paulev, PE

Issue Date: 1977

Abstract: Liquid under pressure is saturated with a given gas, such as argon, nitrogen, or air, by circulation through a column of gas exchangers. A sample of the gas-saturated liquid is isolated in a test chamber, the volume of which can be increased by means of a moving piston. The piston motion is cyclical with a variable frequency. Pressure in the test chamber is measured by means of a capacitive pressure pick-up. When the volume increase of the gas-saturated liquid in the test chamber is compensated for by the development of gas phase bubbles, the pressure decrease will stop; the recording device will show a pressure plateau, or a dip in the pressure-time course, depending on the velocity of the growth of the bubbles. Bubble formation threshold was independent of the frequency of the piston movement within frequency limits from 1 Hz down to 10⁽⁻³⁾ Hz. Most experiments were carried out at a single frequency of 0.5 Hz. This new method appears to have advantages over previous ones. *Decompression *Decompression Sickness *Gases Hydrostatic Pressure Methods *Pressure

Description: Undersea and Hyperbaric Medical Society, Inc. (<http://www.uhms.org>)

URI: [PMID: 878073](#)
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