

ABSTRACT

HYDRAULICALLY-ACTUATED CRYOGENIC PRESERVATION DEVICE

5 This cryogenic preservation or vitrification device (1) comprises:

- an accumulator (2) including a first volume of pressurised hydraulic oil;
- a control system controlling a valve (20) capable of releasing a second volume of hydraulic oil from the accumulator toward a cylinder (55) by means of a pipe (4);
- 10 - a cylinder (55) including a piston (6) configured to be driven by the second volume of hydraulic oil and to displace a first volume of cryogenic fluid to a cryogenic vessel (7) intended to receive a sample (8) to be cryogenically preserved.

15 **Figure. 1**