

### Shelf Life of ALZET Osmotic Pumps

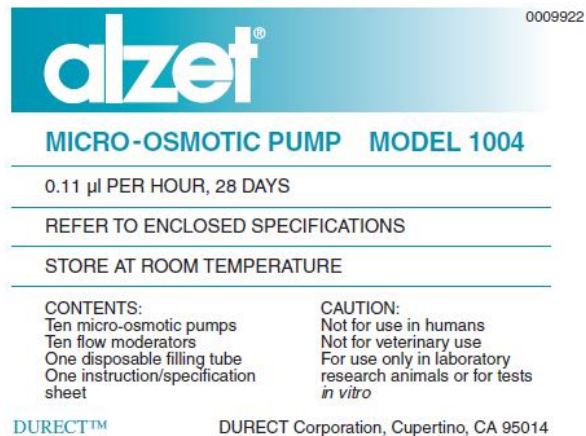
The shelf-life for a properly stored ALZET Osmotic Pump is 7 years. That is to say, you can expect consistent and accurate performance for the duration of infusion, provided the pumps were stored in a dry, room temperature environment and were not exposed to direct heat or extreme conditions during the storage period. A lab drawer or cupboard is ideal. ALZET pumps should never be refrigerated or frozen.

Because the shelf-life of ALZET Osmotic Pumps is so long, ordering a large quantity and taking advantage of the volume discount price is suggested. In addition, ordering larger quantities for long-term use allows you to have pumps from the same lot, which may be advantageous if you have an ongoing study.

If you are in possession of ALZET Osmotic Pumps that are older than 7 years, then the pumps can still be used for implantation training purposes or as sham pumps to control for the surgical implantation itself. However, we do not recommend using expired pumps for critical infusion studies since we cannot guarantee its consistent and accurate performance.

In the event that you find it necessary to verify pump functionality, the [in vitro testing protocol](#) can be used to determine the ALZET pumping rate.

To learn the manufacturing date of your ALZET Osmotic Pumps, call 800-692-2990 or e-mail ALZET Technical Support at [alzet@direct.com](mailto:alzet@direct.com). Be sure to locate the lot number of your ALZET pumps (located on the upper left section of your package insert, as shown below)



LOT NO.	←	
MEAN PUMPING RATE		MICROLITERS/HR.
STANDARD DEVIATION		MICROLITERS/HR.
MEAN FILL VOLUME		MICROLITERS
STANDARD DEVIATION		MICROLITERS