

# DMSO Percentages

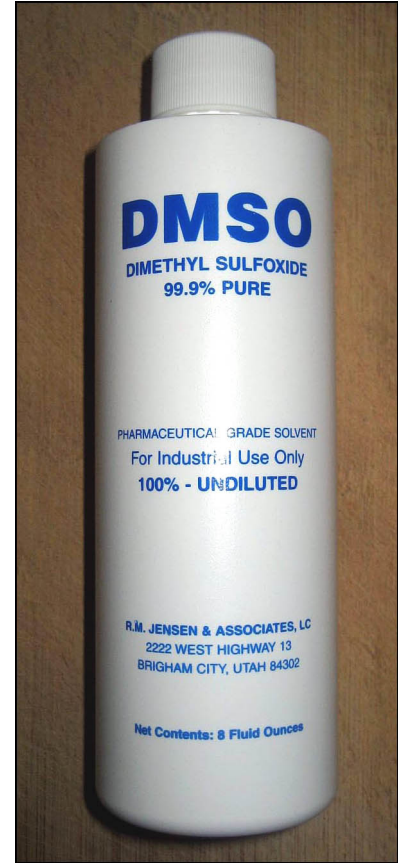
When working with DMSO, know that there are TWO percentages numbers to consider.

The first percentage number is the PURITY of the DMSO. The purity is usually from 99% to 99.995%. Purity refers to anything other than pure DMSO that may be in the particular DMSO that you have. DMSO rated at 99% purity means 1% of the DMSO is not pure DMSO.

The second percentage number is DMSO CONCENTRATION, or the DILUTION with water that your DMSO may or may not have. Most DMSO sold is undiluted, but some is 70% diluted, a common concentration for DMSO.

Unfortunately, many bottles of DMSO only list the purity percentage number, so you don't know if your DMSO is 100% DMSO or has been diluted with water.

One way to test if your DMSO is undiluted with water is to put it in a fridge (not a freezer) for a day and see if there is any unfrozen liquid in the bottle. While 100% DMSO will freeze at 66 degrees Fahrenheit (19C), a 50% mixture of DMSO and water will not freeze at temperatures far below the freezing point of straight water.



If your DMSO is undiluted with water and you choose to dilute it to 70% concentration, and you use pure water such as distilled water, the purity percentage will not be reduced.

Below is an example of 100% DMSO diluted to 70% concentration.

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**Dilution Calculator PPM PPB Percentage**  
<http://endmemo.com/bio/dilution.php>

Concentration:	Volume:
Stock Solution: <input type="text" value="100"/> <input type="text" value="percentage(%)"/>	<input type="text" value="70"/> <input type="text" value="ml"/>
×	
=	
Dilute Solution: <input type="text" value="70"/> <input type="text" value="percentage(%)"/>	<input type="text" value="100"/> <input type="text" value="ml"/>
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Combining 70ml of undiluted DMSO with 30ml of pure water, will give you 100ml of 70% diluted DMSO