



**Oligosphere Medium – No Glutamine  
(OsM-NG)**  
Catalog #1611-NG

**Product Description**

Oligosphere Medium – no glutamine (OsM-NG), when used with Oligosphere Growth Supplement (OPCGS) is a complete medium designed for optimal growth of normal oligospheres *in vitro*. It is a sterile, liquid medium which contains essential and non-essential amino acids, vitamins, organic and inorganic compounds, hormones, growth factors, trace minerals. The medium is HEPES and bicarbonate buffered and has a pH of 7.4 when equilibrated in an incubator with an atmosphere of 5% CO<sub>2</sub>/95% air. The medium is formulated (quantitatively and qualitatively) to provide an optimally balanced nutritional environment that selectively supports the growth of normal oligospheres *in vitro*.

OsM-NG does not contain L-glutamine, an essential amino acid that is unstable in solution at 37°C. OsM-NG should be supplemented with L-glutamine (L-Glu; cat #0813) or stable L-glutamine dipeptide, L-alanyl-L-glutamine (LALG, Cat. #0733). The recommended LALG concentration ranges from 2mM to 10mM but may vary with culture conditions.

**Components**

OsM-NG consists of 500 mL of basal medium, 5 mL of Oligosphere Growth Supplement (OPCGS, Cat. #1662) and 5 mL of penicillin/streptomycin solution (P/S, Cat. #0503). *Note: OPCGS and P/S are not pre-mixed in OsM-NG; they must be added separately to make the complete OsM-NG.*

**NOTE: OsM-NG should be supplemented with L-glutamine prior to use. L-glutamine is not provided with this kit and must be purchased separately.**

**Product Use**

OsM-NG is for research use only. It is not approved for human or animal use, or for application in *in vitro* diagnostic procedures.

**Storage**

Store the basal medium at 4°C and the OPCGS and P/S solution at -20°C. Protect from light.

**Shipping**

Basal medium: room temperature. Supplements: dry ice.

**Instructions for Use**

Thaw OPCGS and P/S solution at 37°C. Gently tilt the tubes several times to ensure the contents are completely mixed before adding to the medium. Spray the medium bottle and tubes with 70% ethanol, and wipe to remove excess liquid. In a sterile field, remove the caps without touching the interior threads with fingers. Add OPCGS and P/S solution to the medium and mix well. Since several components are light-labile, the medium should not be exposed to light for

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extended periods. We do not recommend warming medium in a 37°C water bath prior to use. When stored in the dark at 4°C, the reconstituted medium is stable for one month.

*Caution: If handled improperly, some components of the medium may present a health hazard. Take appropriate precautions when handling it, including the wearing of protective clothing and eyewear. Dispose of properly.*