

# LLOYD WRIGHT'S MESENCHYME

## Abstract:

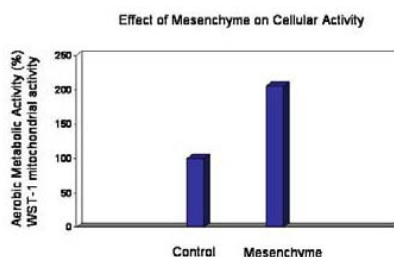
Lloyd Wright's Mesenchyme is an innovative frozen liquid extract consisting of selected proteins, peptides and other growth factors and signaling molecules obtained from porcine mesenchyme tissue.

## FUNCTIONS

Lloyd Wright's Mesenchyme is manufactured and purified via a patented† low temperature process that involves homogenization, fractionation, and ultrafiltration of porcine fetal mesenchyme tissue. The molecules present in this product are selected based on their size and molecular weight (less than 50,000 Daltons), and are isolated in their native state. Once the molecules are selected, the liquid is aseptically bottled and flash-frozen without preservatives to ensure optimal potency, freshness and bioavailability. This process can be applied to different starting materials, allowing for the creation of liquid extracts that are targeted for specific applications. The extract created from this tissue is highly bioavailable and of the highest quality available.

Mesenchyme is embryonic connective tissue composed of pluripotent cells, or cells that are undifferentiated and have the ability to evolve into almost any type of cell. The mesenchyme tissue used in Lloyd Wright's Mesenchyme extract is obtained from embryonic fetal porcine tissue from which cellular growth factors and other signaling molecules are extracted. In vitro data have shown that the components present in the mesenchyme extract can support cellular metabolism as demonstrated by an increase in fibroblast mitochondrial activity in the presence of unaffected cellular proliferation (figures 1 and 2).

Figure 1



## For more information:

Lloyd Wright

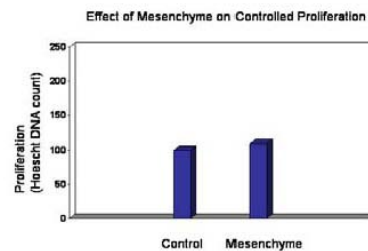
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\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

Figure 2



## INDICATIONS

Lloyd Wright's Mesenchyme may be a useful dietary supplement for those who wish to support normal cellular function.

## SUGGESTED USE

As a dietary supplement, take 1 bottle of Lloyd Wright's Mesenchyme per week or as directed by your healthcare professional.

## DIRECTIONS FOR USE

Thaw bottle by holding in hand. Open bottle and drink the entire contents. Take on an empty stomach in the morning or evening either a half hour before or two hours after a meal.

## SIDE EFFECTS/WARNINGS

May not be suitable for children 12 years of age or younger, pregnant or nursing women, and persons allergic to pork products. Consult a healthcare professional before using.

## STORAGE

Keep Frozen. Do not thaw and refreeze. Keep out of reach of children.

REFERENCES Awad, H. et al. (1999). "Autologous mesenchymal stem cell mediated repair of tendon." *Tissue Eng*; 5 (3): 267-277. Bruder, S. et al. (1998a). "Mesenchymal stem cells in osteobiology and applied bone regeneration." *Clin Orthop*; (355 Suppl): S247-56. Caplan AI, Bruder SP. Mesenchymal stem cells: building blocks for molecular medicine in the 21st century. *Trends Mol Med*. 2001 Jun;7(6):259-64. Pittenger, M. et al. (1999). "Multilineage potential of adult human mesenchymal stem cells." *Science*: 284 (5411): 143-147. Van den Bos, C. et al. (1997). "Human mesenchymal stem cells respond to fibroblast growth factors." *Hum Cell*; 10 (1): 45-50.