**Xtra-Cell™ Anti-Aging Support**

Frozen Glandular Extracts to Support Healthy Cellular Function and Healthy Aging

With Highly Concentrated 125X Mesenchyme Extract

**DESCRIPTION**

Xtra-Cell™ Anti-Aging Support, provided by Douglas Laboratories®, is an innovative frozen liquid extract to support healthy aging that consists of selected proteins, peptides and other growth factors and signaling molecules obtained from porcine adrenal, thymus and mesenchyme tissues, as well as a specialized marine liquid cartilage extract.

**FUNCTIONS**

Xtra-Cell Anti-Aging Support is manufactured and purified via a patented low temperature process that involves homogenization, fractionation, and ultrafiltration of porcine and marine tissues. The molecules present in this product are selected based on their size and molecular weight, and are isolated in their native state. Compounds found in the mesenchyme, adrenal and thymus are typically less than 50,000 Daltons, while the compounds present in the marine cartilage extract are less than 500,000 Daltons. 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 extracts created from these tissues are highly bioavailable and of the highest quality available.

Supplementing with adrenal extract may help to stimulate the adrenal gland. The unique organ-specific glandular growth factors and signaling molecules present in the adrenal and mesenchyme extracts in Xtra-Cell Anti-Aging Support help to promote healthy adrenal function, improve cellular activity, and promote homeostasis, all of which can contribute to healthy aging.* 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 material used in Xtra-Cell Anti-Aging Support is obtained from fetal porcine mesenchymal tissue from which cellular growth factors and other signaling molecules are extracted. *In vitro* data have demonstrated that the components present in the mesenchyme extract can increase cellular metabolism as demonstrated by significant increases in fibroblast mitochondrial activity in the presence of presence of unaffected cellular proliferation (figures 1 and 2). The combination of adrenal and mesenchyme extracts in Xtra-Cell Anti-Aging Support synergistically provides nutritional support for fatigue, and helps to support healthy adrenal function.* Xtra-Cell Anti-Aging Support also provides thymus extract containing a broad range of thymic peptides and may play important roles in supporting lymphocyte proliferation and maturation, thus helping to support overall immune function.

Liquid cartilage extract contains numerous peptides

(continued on reverse)
and other signaling factors that may help to maintain the structure and function of the extracellular matrix as well as support joint and connective tissues, all of which contribute to healthy aging. Compounds present in LCE can help to support the proper activity of a family of zinc-dependent enzymes known as matrix metalloproteinases (MMPs).* Specifically, MMP-2, MMP-9, and MMP-12 (also known as gelatinase A, gelatinase B, and metalloelastase, respectively) have been shown to be involved in the breakdown of skin collagen fibers, vascular basement membranes, and cartilage. Figures 3 and 4 show that LCE can support healthy MMP activity, which may in turn help support healthy aging.

**INDICATIONS**

*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.

**FORMULA** (#99460)

**Serving Size:** 1 Bottle of 9mL

**Servings Per Package:** 24

**Each Bottle Contains:**

Porcine Mesenchyme Aqueous Extract 125X ............... 0.16 fl. oz. (4.8mL)
Porcine Adrenal Aqueous Extract (enriched with Mesenchyme 125X) ............. 0.05 fl. oz. (1.4 mL)
Porcine Thymus Aqueous Extract .......................................... 0.05 fl oz (1.4 mL)
Marine Liquid Cartilage Extract (from fish) ....................... 0.05 fl oz (1.4 mL)

**SUGGESTED USE**

As a dietary supplement, take one bottle of Xtra-Cell Anti-Aging Support per day or as directed by your healthcare professional.

**DIRECTIONS FOR USE**

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

**SIDE EFFECTS/WARNINGS**

This product may not be suitable for children 12 years of age or younger, pregnant or nursing women, persons taking immunosuppressants, those allergic to fish (shark) and/or pork products, persons with circulatory and/or nervous conditions, and persons who recently had a heart attack. Consult a healthcare professional before use.

**STORAGE**


**REFERENCES**


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