

Study of the Antiangiogenic Effect of Silymarin using Chorioallantoic Membrane (CAM) Assay

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SUMMARY. Milk Thistle (*Silybum marianum* (L.) Gaertn., Asteraceae), a medicinal herb which is famous in treatment of toxic liver disorders as well as some certain cancers due to presence of bioactive compound silymarin. In this experiment, we investigated the anti-angiogenic activity of silymarin extracted from different source of plant (seeds, leaf, root and root originated callus) through chorioallantoic membrane (CAM) assay. Based on our results, silymarin extracted from different parts of the plant had shown a promising anti-angiogenic effect and a possible source of chemotherapeutic agent against tumors; seed extracts showed maximum anti-angiogenesis activity in comparison to all other extracts of *S. marianum* assayed.

RESUMEN. El cardo de leche o cardo mariano (*Silybum marianum* (L.) Gaertn., Asteraceae), una hierba medicinal que es famosa en el tratamiento de trastornos hepáticos tóxicos, así como algunos ciertos cánceres, debido a la presencia de silimarina, compuesto bioactivo. En este experimento, investigamos la actividad antiangiogénica de la silimarina extraída de diferentes partes de la planta (semillas, hojas, raíces y callos originados en raíces) a través del ensayo de membrana corioalantoica (CAM). En base a nuestros resultados, la silimarina extraída de diferentes partes de la planta había mostrado un prometedor efecto antiangiogénico y una posible fuente de agente quimioterapéutico contra los tumores; los extractos de semillas mostraron una actividad anti-angiogénesis máxima en comparación con todos los demás extractos de *S. marianum* ensayados.

KEY WORDS: anti-angiogenesis activity, *Silybum marianum*, silymarin.

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