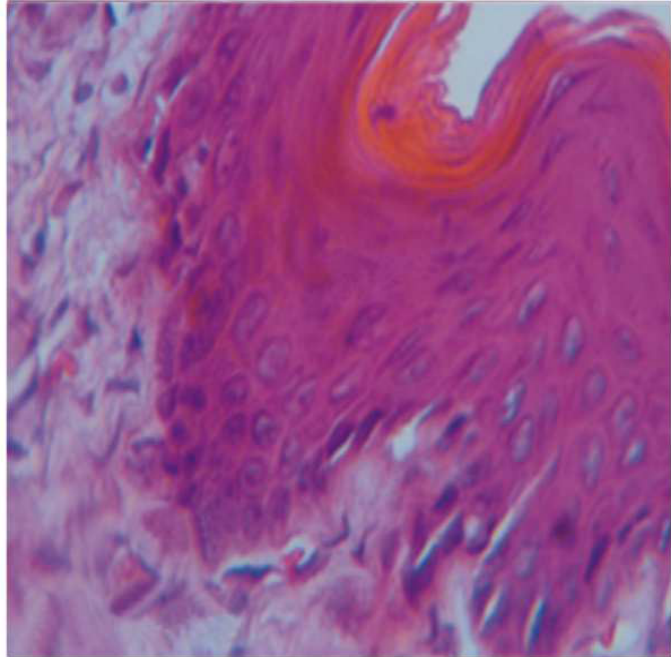


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## ***Potency of Brown Seaweed (Sargassum duplicatum Bory) Ethanol and Ethyl Acetic Fraction to Malondialdehyde Concentration Decreasing and Histological Retrival of IBD (Inflammatory Bowel Disease) Rat Small Intestinal Jejunum***

## ***Potensi Fraksi Etanol dan Etil Asetat Rumput Laut Coklat (Sargassum duplicatum Bory) Terhadap Penurunan Kadar Malondialdehid dan Perbaikan Gambaran Histologis Jejunum Usus Halus Tikus IBD (Inflammatory Bowel Disease)***

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### **Abstract**

Inflammatory Bowel Disease (IBD) is a chronic inflammatory disease that attacks the digestive tract (specific in intestine and gastric). One of that causing IBD were indomethacin side effect as non-steroidal anti inflammatory drug. Exploration herbal material was developed countinously on medicinal treatment of IBD, include brown seaweed (Sargassum duplicatum Bory) extract from ethanol dan ethylacetic fraction. Indomethacin was used to induce small intestine inflammation with 15mg/kg body weight or ally once time and continued by theraphy of brown seaweed (Sargassum duplicatum Bory) ethanol dan ethylacetic fraction 100mg/kg body weight seven times for sevendays. Level of malondialdehyde (MDA) and histological picture of smal lintestine (jejunum) were used as parameter from effect Sargassum duplicatum Bory ethanol dan ethyl acetic fraction present to the small intestine inflammation. The MDA level was measured by TBA assay and histological picture was observed by hematoxylin-eosin staining. The result of this research showed that there were descent of MDA level 54.20%. The histological observation also showed there were repaired on jejunum small intestine tissue. These result showed that Sargassum duplicatum Bory ethanol dan ethyl acetic fraction might be improved as alternatve theraphy on IBD medical treatment, especially small intestine inflammation. IBD

Keyword : , IBD, , Indomethacin, Brown, Sea, Weed, (Sargassum, duplicatum, Bory), MDA,

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