

14.

TLC Bioautography Method - Antioxidant Activity

Test

Reduction of 2,2-Diphenyl-1-picrylhydrazyl (DPPH) radical TLC bioautography assay: After developing and drying, spray TLC plates with 0.2 % DPPH solution in methanol. Active compounds appear as yellow spots against a purple background 30 min after spraying, (Figure 2).

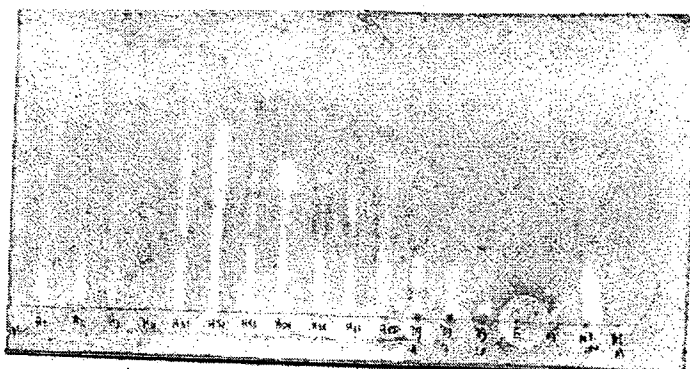


Figure 2: TLC bioautography (DPPH) of column fractions collected from a plant extracts

References:

- Cuendet, M., Hostettmann, K. and Potterat, O. (1997) *Helvetica Chimica Acta* 80, 1144 - 1152.
- Cavin, A., Hostettmann, K. Dyatmyko, W. and Potterat, O. (1998) *Planta Medica* (1998) 64, 393 - 396.
- Takao, T., Kitatani, F., Watanabe, N., Yagi, A. and Sakata, K., (1994) *Biosci. Biotech. Biochem.* (1994) 58, 1780 -1783.