

Neoprzewaquinone A has algicidal effect on *M. aeruginosa*, with EC₅₀ of 4.68 mg /L, the potential inhibition mechanisms are neo-przewaquinone A caused *M. aeruginosa* cells morphologic damage or lysis, increased malondialdehyde content and decreased the soluble protein content, total antioxidant and superoxide dismutase activity, and significantly inhibited three photosynthesis-related genes (*psaB*, *psbD*, and *rbcL*).^[1]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[2]

Mobile phase: Methanol -H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 225 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Zhang C, Yi Y L, Hao K, *et al.* *Chemosphere*, 2013, 93(6):997-1004.

[2] Chen W S, Tao Z Y, Zhang W D, *et al.* *Chinese Chemical Letters*, 2003, 14(7):711-2.

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