

SUMMARY

This research dealt with evaluation biological activity some choice photosensitizers. Testing organism is *Tubifex tubifex* Müll, test proceeds in twenty-four foveolated micro-titrating plates.

From many photo-toxic materials was choice to check photo-dynamic activity six compounds synthesized on Department Inorganic and Organic Chemistry.

From many parameters been choice two endpoints-damage and mortality.

Damage induced only 3,5-dichlor-4'-chlorthiosalicylanilid a 3,5-dichlor-4'-bromthiosalicylanilid.

Mortality (UV-irradiation):

1. 3,5-dichlor-4'-chlorthiosalicylanilid- most toxic
2. 3,5-dichlor-4'-bromthiosalicylanilid
3. 3',4'-dichlorthiosalicylanilid
4. thiosalicylanilid-embodies photo-toxic potential
5. 5-chlorthiosalicylanilid
6. 4-methylthiosalicylanilid-at least toxic

Mortality (without UV-irradiation):

1. 3,5-dichlor-4'-chlorthiosalicylanilid- most toxic
2. 3,5-dichlor-4'-bromthiosalicylanilid
3. 3',4'-dichlorthiosalicylanilid
4. 5-chlorthiosalicylanilid
5. thiosalicylanilid
6. 4-methylthiosalicylanilid-at least toxic