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A NEW SALMONELLA TYPE (S. ZEGA) FROM THE BELGIAN CONGO

By

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From the intestines of ducklings which became ill or died during an epidemic in Zega (*Lac Albert*) 2 *Salmonella* strains belonging to a new type were isolated. One strain (1740) was sent to the International *Salmonella* Centre in Copenhagen and analysed.

The biochemical behaviour of this new type is as follows: No fermentation of adonitol, inositol, lactose, salicin, and sucrose. No production of indole, no liquefaction of gelatin (60 days 20°C.), and no decomposition of urea. Rapid fermentation of arabinose, dulcitol, glucose (with gas), maltose, mannitol (with gas), rhamnose, sorbitol, trehalose, and xylose. Positive reaction in Stern's glycerol-fuchsin broth after 2 days. Prompt formation of H₂S and prompt growth on ammonium agar containing glucose and sodium citrate. Positive reaction in d-tartrate, mucate, and sodium citrate after 1 day, negative reaction in i-tartrate after 14 days. Nitrates were reduced, the Voges-Proskauer reaction was negative and the methyl-red reaction positive.

Serologically the type has the formula IX, XII:d:z₆. Cross-absorptions showed that the O antigen IX, XII is identical with the O antigen of *S. ndolo* (IX, XII:d:1,5). The H antigen (phase 1) is identical with the H antigen (phase 1) of *S. ndolo* and the H antigen (phase 2) is identical with the H antigen (phase 2) of *S. kentucky* (VIII, XX:i:z₆).

In contrast to *S. ndolo* = IX, XII:d:1,5 which does not produce H₂S *S. zega* is H₂S positive and contains the 2. phase z₆.

SUMMARY

The authors describe a new *Salmonella* type from the Belgian Congo: *S. zega* = IX, XII:d:z₆, isolated from sick ducklings.

REFERENCE

Kauffmann, F., E. van Oye and F. Evens: Acta path. et microb. scand. 27, 32, 1950.