

October 22, 1947.

Dr. H. N. Eisen,
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New York, 16, N.Y.

Dear Herman,

Thanks for your permission to cite your "substantial confirmation" of Fox & Ward's work. I thought that desirable because my own first reactions were incredulousness, and while without hearing your work in detail I can hardly satisfy my own mind about it, the atmosphere is cleared by word of confirmation of such spectacular reports.

I am not sure that I can help you much on the color of your extracts. However, don't you think that the molasses is contributing mightily to it? Burkholder (Bull. Torrey Bot. Club) July '43 describes this medium which works fine: (per liter, in gms:)

Asparagine 2, KH_2PO_4 1.5, $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$.5, $\text{CaCl}_2 \cdot \text{H}_2\text{O}$.33,
 $(\text{NH}_4)_2\text{SO}_4$ 2.0, and a trace element mixture: ppm
B .01, Mn .01, Zn .07, Cu .01, Mo .01, Fe .05.

Add sugar, sterilized separately, as required.

You may also have to add required vitamins- probably thiamin, inositol, biotin, and pyridoxine.

Reprints were sent under separate cover.

Sincerely yours,

Joshua Lederberg.