



Abstract Background:

Superoxide is a molecule produced in the body that, when produced in excess can cause an unhealthy imbalance in the inflammatory status of the body. Managing and suppressing superoxide production is critical for maintaining a healthy inflammatory status in the body and promoting proactive wellness. The purpose of this study is to evaluate the ability of Revive from THREE International to inhibit superoxide production in human cells.

Methods:

Human epidermal liver cells (THLE-2) were prepared, cultured, and harvested according to standard microbiological processes. 180 µL of cells were added to a 96 well plate along with a WST-1 cell proliferation assay, and then incubated with Revive at two different concentrations (50 µg/mL and 150 µg/mL). Cells were assayed for superoxide production by reading the plate at 450 nm at 5 different timepoints.

Results:

As shown in Table 1 below, Revive from THREE was able to inhibit superoxide production in human liver cells by almost 36% at a concentration of 150 µg/mL. This concentration is similar to amounts seen in the body after oral consumption of Revive.

SAMPLE ID	Superoxide Concentration (Mean OD450)	SEM	% INHIBITION
Inactivated Cells (0.15% DMSO)	2.05	0.12	0
Activated Cells (0.15% DMSO)	2.2	0.05	0
Three Revive (50 µg/mL)	2.33	0.09	3.98
Three Revive (150 µg/mL)	1.42	0.18	35.87

Table 1: Ability of Revive to inhibit superoxide production in human liver cells as measured by a WST-1 Assay.

SUMMARY:

In conclusion, Revive from THREE can support a healthy inflammatory status in the body by downregulating the production of superoxide in liver cells. Bringing inflammation back into balance can support healthy joints, ease muscle stiffness and soreness, promote exercise recovery, and counteract the negative effects of free radicals.

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