

In vivo effects of an anti-mycotoxins product in weaned pigs challenged by fumonisins: Insights into the animal performance and antioxidant status

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1. INTRODUCTION

In swine production, **fumonisins (FB1 and FB2)** are known to induce several detrimental effects, such as **cellular immunosuppression**, **decreased weight gain**, **disruption of the intestinal barrier** and **oxidative stress**. To mitigate the harmful effects of mycotoxins in contaminated feed for pigs, **detoxifying agents** can be added as feed additives.

AIM: to investigate the effects of an anti-mycotoxins product that contains a selected **binding material** and **natural extracts besides an exclusive combination of yeasts**, on **animal performance** and **antioxidant status** in **weaned pigs** challenged by **FB1 and FB2**.

2. MATERIALS AND METHODS



Experimental animals

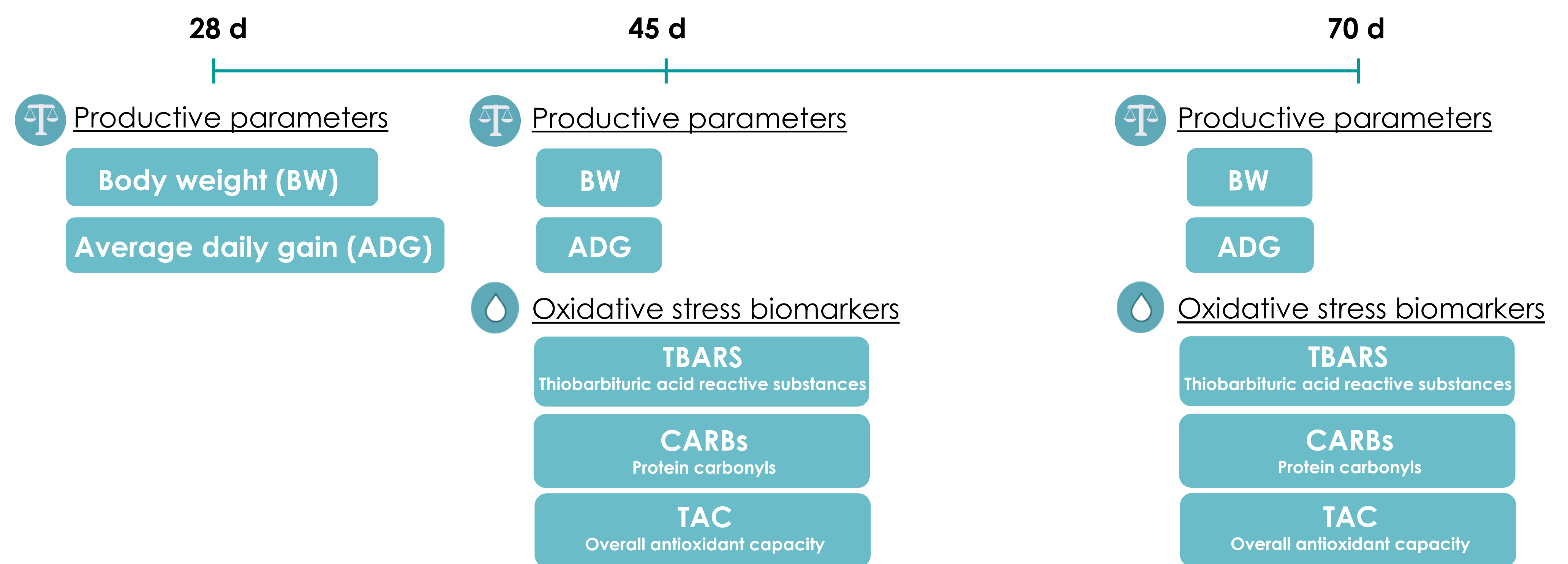
150 weaned pigs
(28 d of age)

Dietary treatments:

T1: challenging diet (naturally contaminated with **970.2 ppb of FB1** and **250.1 ppb of FB2**)

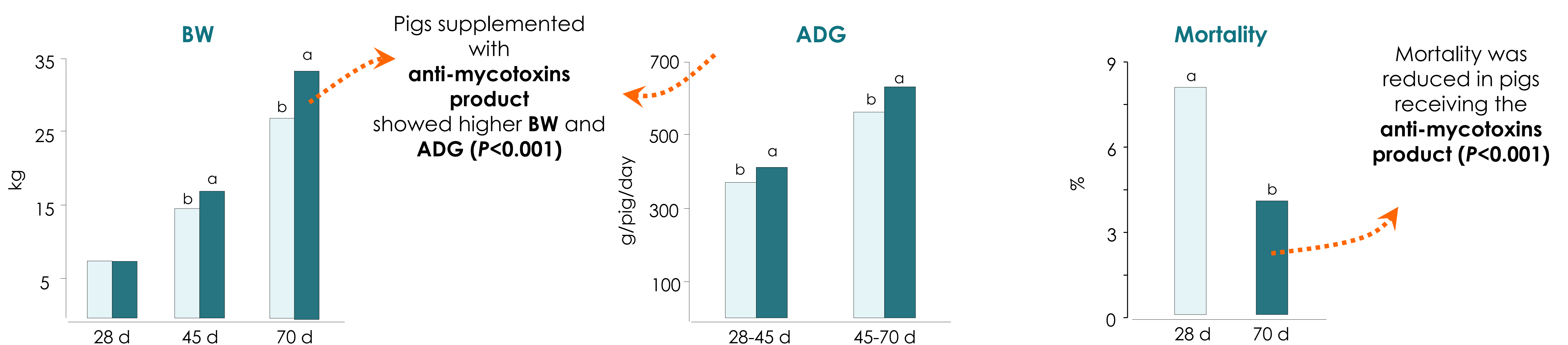
T2: T1 + **2.5 kg** of the **anti-mycotoxins product**.

Controls and sampling

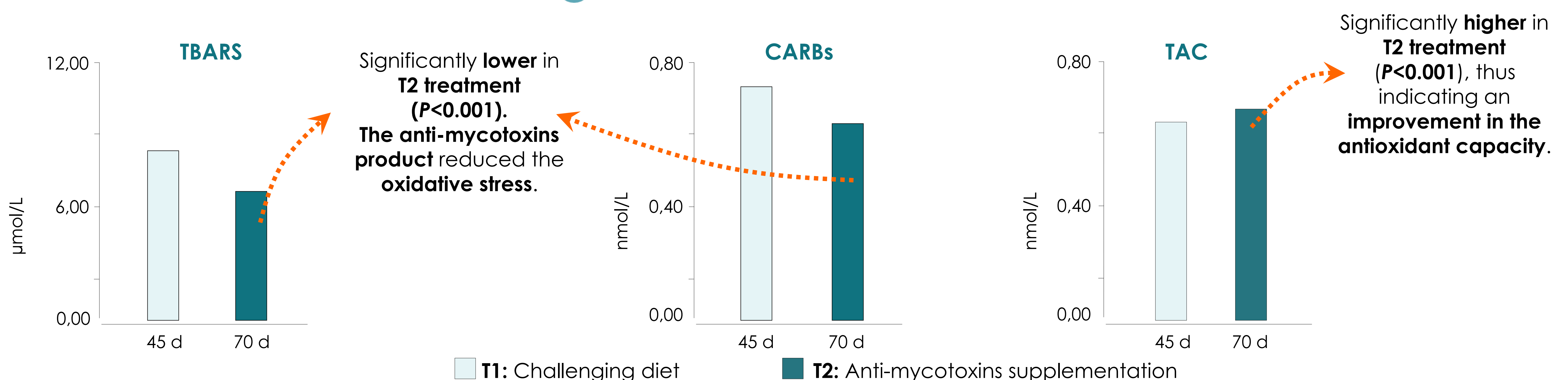


3. RESULTS

PRODUCTIVE PARAMETERS



OXIDATIVE STRESS BIOMARKERS



4. CONCLUSIONS

The **anti-mycotoxins product** containing a selected binding material combined with natural extracts and yeast products **improved the animal performance** and **enhanced the antioxidant status** in **weaned pigs** fed a diet naturally contaminated with **FB1 and FB2**.