

Figure S1: Effect of a supplementation of 354 mg/L YAN equivalent of various nitrogen sources on : (A, C, E) cell growth and (B, D, F) CO₂ production during wine fermentation under oleic acid starvation. Nitrogen supplementations were separated in function of their impact on yeast viability : those leading to the lower loss of viability (A, B); those leading to an moderate loss of viability (C, D) and those leading to the highest loss of viability (E, F). Fermentations were performed in duplicate, error bars correspond to the standard deviation.

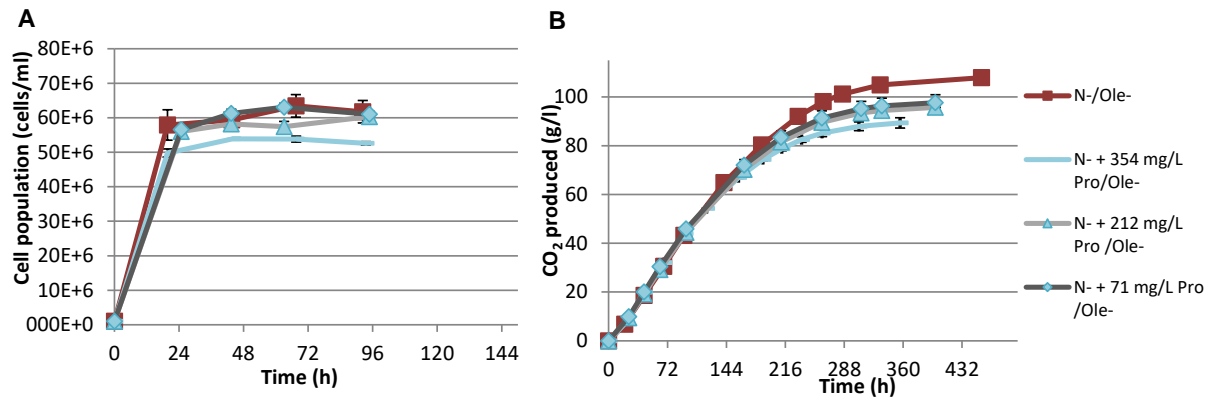


Figure S2: Effect of a supplementation of 354, 212 and 71 mg/L «YAN equivalent» of proline on : (A) cell growth and (B) CO₂ production during the wine fermentation under oleic acid starvation. Fermentations were performed in duplicate, error bars correspond to the standard deviation.

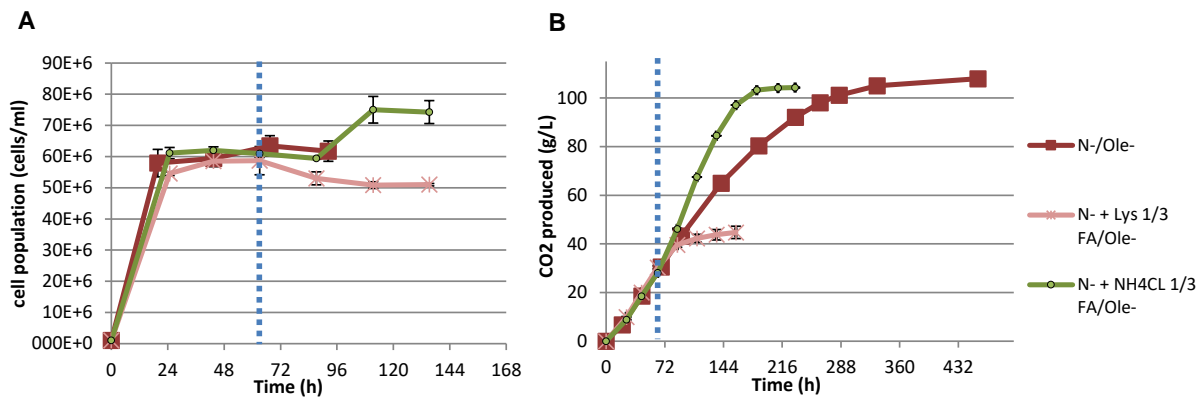


Figure S3: Effect of a supplementation of 354 mg/L YAN equivalent of lysine at one third of the fermentation on : (A) cell growth and (B) CO₂ production during the wine fermentation under oleic acid starvation. Fermentations were performed in duplicate, error bars correspond to the standard deviation. Dot line indicates the nitrogen supplementation at 1/3 of the fermentation.

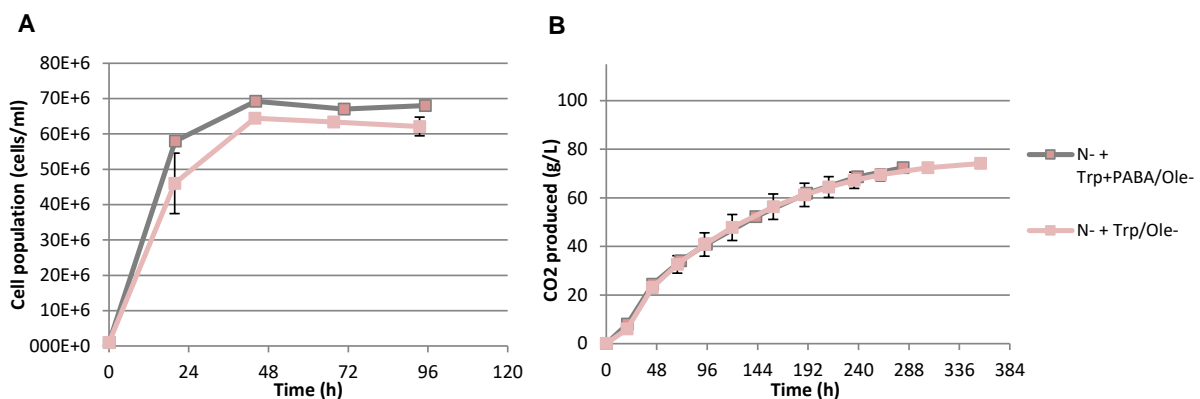


Figure S4: Effect of a supplementation of 1 mg/L of PABA and 354 mg/L YAN equivalent of tryptophan on : (A) cell growth and (B) CO₂ production during the wine fermentation under oleic acid starvation. Fermentations were performed in duplicate, error bars correspond to the standard deviation.

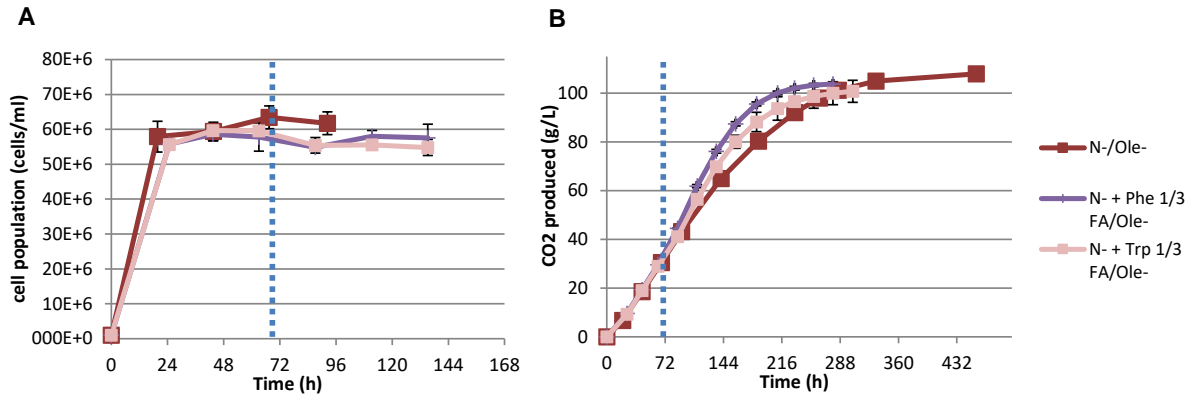


Figure S5: Effect of a supplementation of 354 mg/L YAN equivalent of tryptophan and phenylalanine at one third of the fermentation on : (A) cell growth and (B) CO₂ production during the wine fermentation under oleic acid starvation. Fermentations were performed in duplicate, error bars correspond to the standard deviation. Dot line indicates the nitrogen supplementation at 1/3 of the fermentation.

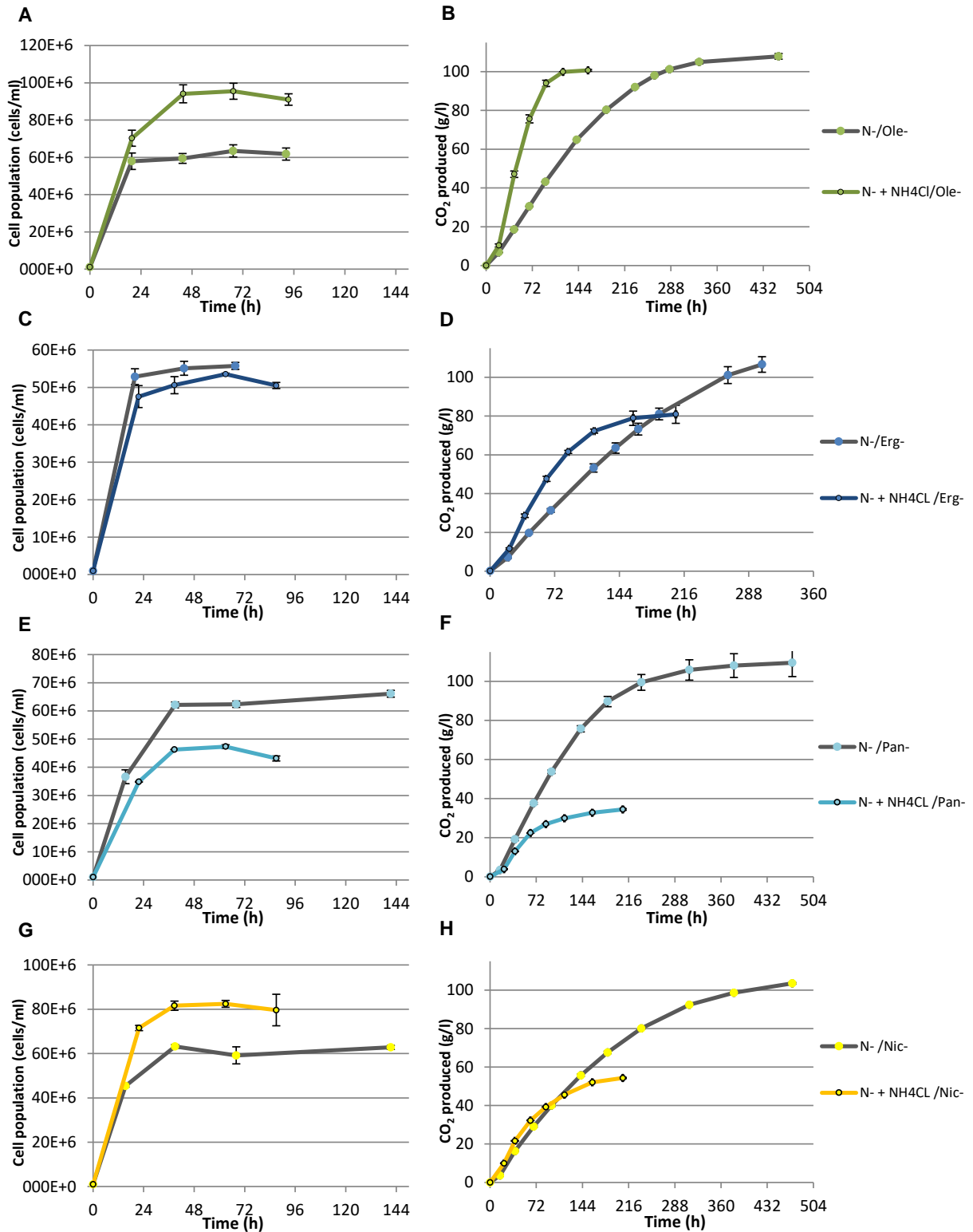


Figure S6: Effect of a supplementation of 354 mg/L YAN equivalent of ammonium on : (A, C, E, G) cell growth and (B, D, F, H) CO₂ production during the wine fermentation under (A, B) oleic acid, C, D) ergosterol, (E, F) pantothenic acid and (G, H) nicotinic acid starvations. Fermentations were performed in duplicate, error bars correspond to the standard deviation.

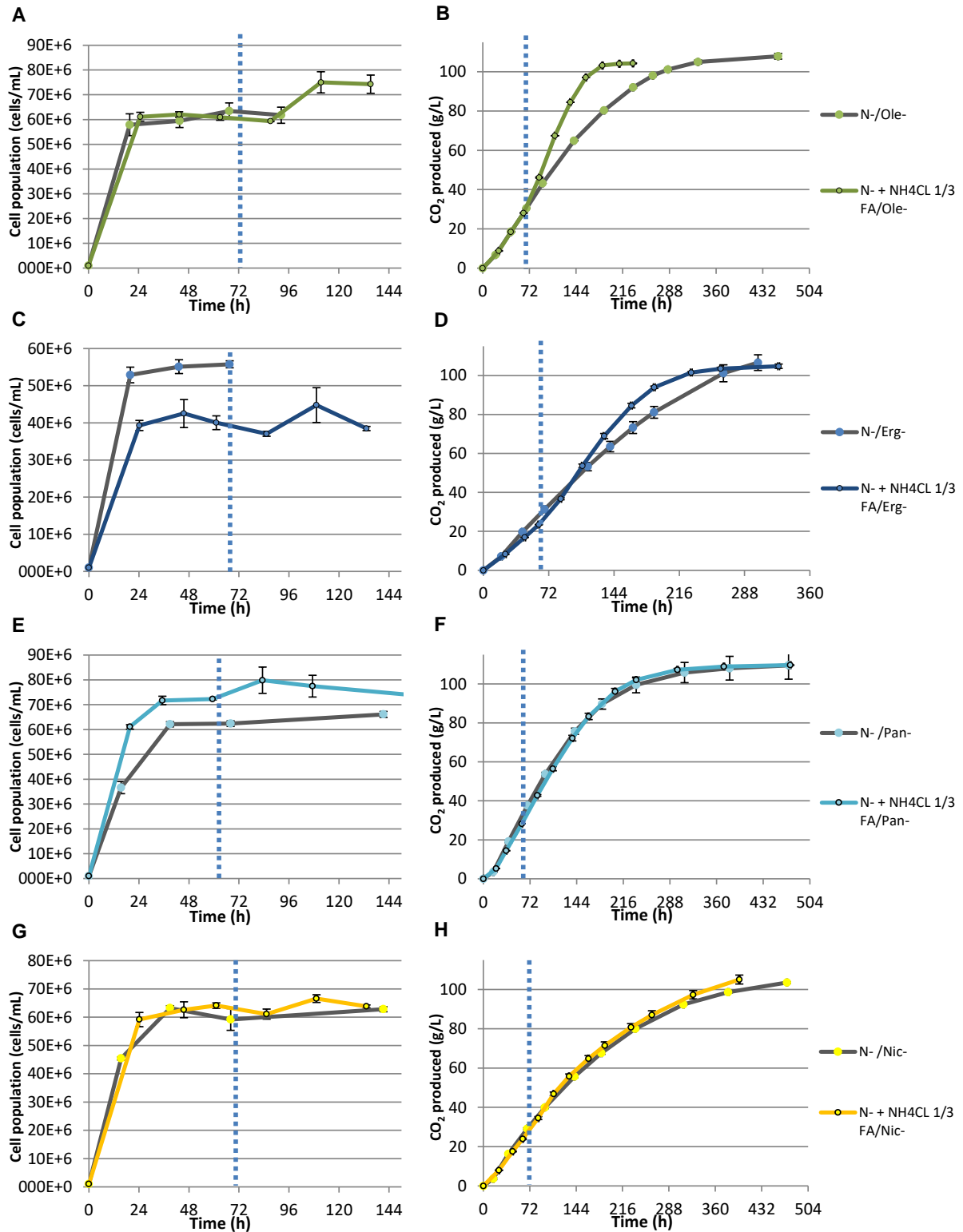


Figure S7: Effect of a supplementation of 354 mg/L YAN equivalent of ammonium at one third of the fermentation on : (A, C, E, G) cell growth and (B, D, F, H) CO₂ production during the wine fermentation under (A, B) oleic acid, (C, D) ergosterol, (E, F) pantothenic acid and (G, H) nicotinic acid starvations. . Fermentations were performed in duplicate, error bars correspond to the standard deviation. Dot line indicates the nitrogen supplementation at 1/3 of the fermentation.