

**Table 2.** Oxygen transport variables ( $P_{50}$ , Hill coefficients, Bohr and Root effects) at 0.2, 0.4, and 1.2 kPa  $\text{CO}_2$  in rainbow trout (*Oncorhynchus mykiss*) reared in normoxia (100% of  $\text{O}_2$  saturation) or hypoxia (30% of  $\text{O}_2$  saturation) over a developmental series.

	Developmental stage	Normoxia			Hypoxia		
		0.2 kPa $\text{CO}_2$	0.4 kPa $\text{CO}_2$	1.2 kPa $\text{CO}_2$	0.2 kPa $\text{CO}_2$	0.4 kPa $\text{CO}_2$	1.2 kPa $\text{CO}_2$
$P_{50}$ (kPa)	27	1.13 ± 0.13 <sup>a</sup>	0.90 ± 0.08 <sup>ab</sup>	1.37 ± 0.16 <sup>a+</sup>	0.93 ± 0.07	0.87 ± 0.08	1.41 ± 0.16
	30	0.91 ± 0.04 <sup>a</sup>	1.15 ± 0.16 <sup>a</sup>	1.18 ± 0.07 <sup>b+</sup>	0.79 ± 0.03	0.95 ± 0.05	1.16 ± 0.09
	32	0.98 ± 0.07 <sup>b</sup>	1.27 ± 0.12 <sup>b</sup>	1.33 ± 0.11 <sup>abc+</sup>	1.00 ± 0.08	1.31 ± 0.07	1.29 ± 0.13
	33	1.58 ± 0.12 <sup>c</sup>	1.67 ± 0.13 <sup>c+</sup>	2.15 ± 0.13 <sup>cd+</sup>	1.60 ± 0.10	1.80 ± 0.14	2.26 ± 0.10
	35	2.10 ± 0.13 <sup>c</sup>	2.67 ± 0.19 <sup>c+</sup>	3.17 ± 0.14 <sup>d+</sup>	1.89 ± 0.11	2.19 ± 0.15	2.84 ± 0.14
Hill Coefficient	27	1.88 ± 0.10 <sup>a</sup>	2.02 ± 0.13 <sup>a</sup>	1.87 ± 0.14 <sup>a</sup>	1.88 ± 0.15	1.86 ± 0.29	1.65 ± 0.17
	30	1.94 ± 0.11 <sup>ab</sup>	1.74 ± 0.15 <sup>ab</sup>	1.60 ± 0.08 <sup>ab+</sup>	1.59 ± 0.11	1.64 ± 0.13	1.43 ± 0.16
	32	1.44 ± 0.07 <sup>bc</sup>	1.39 ± 0.07 <sup>bc</sup>	1.37 ± 0.05 <sup>b</sup>	1.69 ± 0.07	1.48 ± 0.07	1.46 ± 0.06
	33	1.49 ± 0.07 <sup>c</sup>	1.34 ± 0.05 <sup>c</sup>	1.23 ± 0.05 <sup>b</sup>	1.34 ± 0.04	1.23 ± 0.03	1.22 ± 0.07
	35	1.38 ± 0.06 <sup>c</sup>	1.27 ± 0.07 <sup>c</sup>	1.23 ± 0.07 <sup>b</sup>	1.49 ± 0.04	1.35 ± 0.04	1.26 ± 0.04
Bohr effect	27		0.02 ± 0.10 <sup>a</sup>	-0.47 ± 0.13 <sup>ab</sup>		-0.43 ± 0.12 <sup>A</sup>	-0.41 ± 0.14
	30		-0.51 ± 0.10 <sup>ab</sup>	-0.68 ± 0.14 <sup>ab</sup>		-0.63 ± 0.18 <sup>AB</sup>	-0.65 ± 0.11
	32		-0.42 ± 0.18 <sup>ab</sup>	-0.50 ± 0.10 <sup>a</sup>		-1.0 ± 0.2 <sup>AB*</sup>	-0.38 ± 0.07
	33		-0.43 ± 0.04 <sup>ab</sup>	-0.90 ± 0.15 <sup>bc</sup>		-1.4 ± 0.3 <sup>B*</sup>	-0.99 ± 0.04
	35		-0.79 ± 0.12 <sup>b</sup>	-0.99 ± 0.14 <sup>c</sup>		-0.82 ± 0.14 <sup>AB</sup>	-1.1 ± 0.1
Max Hb Saturation (%) (Root effect)	27		97.0 ± 1.1 <sup>a</sup>	81.1 ± 2.3 <sup>a</sup>		90.6 ± 2.8	87.6 ± 4.9
	30		87.7 ± 3.3 <sup>a</sup>	89.4 ± 3.4 <sup>a</sup>		87.0 ± 4.2	94.3 ± 3.8
	32		79.3 ± 7.3 <sup>ab</sup>	80.6 ± 7.5 <sup>a</sup>		88.8 ± 1.8	80.4 ± 5.0
	33		71.4 ± 5.9 <sup>bc</sup>	58.4 ± 6.7 <sup>b</sup>		71.0 ± 4.2	61.5 ± 6.6
	35		66.0 ± 4.7 <sup>c</sup>	62.0 ± 6.0 <sup>b</sup>		73.0 ± 5.0	59.8 ± 4.4

Data are presented as mean ± s.e.m. (n = 6 – 10).

Different lowercase and uppercase letters represent significant differences in the normoxic and hypoxic groups, respectively.

+ Indicates significant differences from 0.2 kPa  $\text{CO}_2$ .

\* Indicates significant differences from the normoxic group.