

**Table III.**Total HMB and metabolite concentrations in PND28 and PND56 male and female rats ( $n = 4-5$ ) following perinatal exposure to HMB via feed

Analyte	Age	Sex	Dose (ppm)			
			0 (ng/mL) Mean $\pm$ SE	3,000 (ng/mL) Mean $\pm$ SE	10,000 (ng/mL) Mean $\pm$ SE	30,000 (ng/mL) Mean $\pm$ SE
HMB	PND28	M	590.9 $\pm$ 321.9 <sup>a</sup>	3,470.0 $\pm$ 1,051.9 <sup>b</sup>	8,822.0 $\pm$ 2,781.5 <sup>b</sup>	16,940.0 $\pm$ 5498.9 <sup>b</sup>
		F	352.0 $\pm$ 211.0 <sup>c</sup>	2,080.0 $\pm$ 156.9 <sup>b</sup>	7,694.0 $\pm$ 2501.4 <sup>b</sup>	16,703.3 $\pm$ 6908.5 <sup>c</sup>
	PND56	M	81.7 $\pm$ 2.7 <sup>b</sup>	10,600.0 $\pm$ 1495.6 <sup>b</sup>	40,100.0 $\pm$ 1499.0 <sup>b,d</sup>	5,7900.0 $\pm$ 8494.8 <sup>a</sup>
		F	79.82 $\pm$ 2.42 <sup>b</sup>	2,572.0 $\pm$ 369.7 <sup>b</sup>	12,204.0 $\pm$ 1584.9 <sup>b</sup>	43,350.0 $\pm$ 7468.2 <sup>b</sup>
DHB	PND28	M	1,147.8 $\pm$ 723.9	7,941.0 $\pm$ 1868.1 <sup>a</sup>	13,182.0 $\pm$ 2498.9 <sup>b</sup>	25,260.0 $\pm$ 5044.8 <sup>b</sup>
		F	776.5 $\pm$ 613.5 <sup>c</sup>	5,850.0 $\pm$ 542.3 <sup>b</sup>	13,758.0 $\pm$ 1823.6 <sup>b</sup>	20,636.7 $\pm$ 7998.9 <sup>c</sup>
	PND56	M	0.8 $\pm$ 0.0	21,526.0 $\pm$ 4205.2 <sup>b</sup>	40,840.0 $\pm$ 6861.7 <sup>b,d</sup>	56,250.0 $\pm$ 6121.8 <sup>b</sup>
		F	20.1 $\pm$ 0.0	14,006.0 $\pm$ 2701.3 <sup>b,d</sup>	25,460.0 $\pm$ 3176.1 <sup>b,d</sup>	48,875.0 $\pm$ 6316.8 <sup>b</sup>
THB	PND28	M	183.0 $\pm$ 61.0	1,463.3 $\pm$ 141.9	2,614.0 $\pm$ 380.7	7,908.0 $\pm$ 1394.0
		F	166.0 $\pm$ 68.0	1,173.3 $\pm$ 17.6	3,744.0 $\pm$ 292.3	5,740.0 $\pm$ 1924.3
	PND56	M	40.9 $\pm$ 0.0	2,830.0 $\pm$ 247.9	8,146.0 $\pm$ 737.4 <sup>d</sup>	14,037.5 $\pm$ 3006.1
		F	40.9 $\pm$ 0.0	3,160.0 $\pm$ 392.2 <sup>d</sup>	11,696.0 $\pm$ 800.4 <sup>d</sup>	17,050.0 $\pm$ 2554.2
2,5-	PND28	M	907.0 $\pm$ 530.3	5,496.7 $\pm$ 1102.9	11,860.0 $\pm$ 1546.5	20,300.0 $\pm$ 2805.9

DHMB Analyte	Age	Sex	Dose (ppm)			
			0 (ng/mL) Mean ± SE	3,000 (ng/mL) Mean ± SE	10,000 (ng/mL) Mean ± SE	30,000 (ng/mL) Mean ± SE
		F	528.0 ± 410.0	4,900.0 ± 680.1	11,580.0 ± 1339.2	19,660.0 ± 7940.6
	PND56	M	20.0 ± 0.0	7,924.0 ± 959.3	25,740.0 ± 1202.7 <sup>d</sup>	48,400.0 ± 9493.2
		F	20.0 ± 0.0	9,484.0 ± 1325.2 <sup>d</sup>	29,640.0 ± 2903.9 <sup>d</sup>	36,725.0 ± 2101.7

<sup>a</sup>Significantly higher than the free metabolite ( $P < 0.05$ ).

<sup>b</sup>Significantly higher than the free metabolite ( $P < 0.01$ ).

<sup>c</sup>Comparison was not available due to having only two non-missing pairs.

<sup>d</sup>Significantly higher than PND28 ( $P < 0.05$ ).