

Red Wine Vinegar Testing
Empire State Consumer Project

vinegars or vinegar reductions and glazes (**Balsamics**)

1st Test, February 2021 – heavy metals

	Store	Arsenic	Lead	Reduction or Glaze?	Origin
1. Terre Verde Organic Balsamic Vinegar	Walmart	.203 ppm/ 203 ppb	ND	no	Italy
2. Great Value (Walmart) Balsamic Vinegar	Walmart	.128 ppm/ 128 ppb	.106 ppm/ 106 ppb	no	Italy
3. Holland House Red Cooking Vinegar	Walmart	not detected (ND)	ND	no	Italy
4. Pompeian Balsamic Vinegar	Walmart	ND	ND	no	Italy
5. Trader Giotto's (Trader Joe's) Balsamic 16.9 oz	Trader Joe's	ND	ND	no	Italy
6. Wegmans Red Wine Vinegar	Wegmans	ND	ND	no	Italy
7. Alessi Balsamic Vinegar	Walmart	ND	ND	no	Italy
8. Trader's Balsamic Glaze	Trader Joe's	ND	ND	Glaze	Italy
9. Rachel Ray Balsamic Reduction	Walmart	.0745 ppm/ 74.5 ppb	.0686 ppm/ 68.6 ppb	Reduction	Italy
10. Trader's Balsamic Vinegar 8.5 oz	Trader Joe's	.117 ppm/ 117 ppb	ND	no	Italy

2nd Test, March 2021 – heavy metals

1. Colavita Balsamic Vinegar	Wegmans	.229 ppm/ 229 ppb	.0893 ppm/ 89.3 ppb	no	Italy
2. Wegmans Aged Balsamic Vinegar of Modena	Wegmans	1.04 ppm/ 1040 ppb	.0888 ppm/ 88.8 ppb	no	Italy
3. Monari Federonzi Balsamic Vinegar of Modena	Wegmans	.314 ppm/ 314 ppb	.0777 ppm/ 77.7 ppb	no	Italy
4. Alessi Balsamic Reduction, plastic bottle	Target	.405 ppm/ 405 ppb	.127 ppm/ 127 ppb	Reduction	Italy

3rd Test, April 2021 – heavy metals

1. VRISI 36 Balsamic Vinegar, Greece	Wegmans	.298 ppm/ 298 ppb	.0905 ppm/ 90.5 ppb	no	Greece
2. Columela Sherry Vinegar, Spain	Wegmans	ND	.0942 ppm/ 94.2 ppb	no	Spain
3. Wegmans Organic Balsamic	Wegmans	.0706 ppm/ 70.6 ppb	ND	no	Italy
4. Wegmans Organic Balsamic	Wegmans	ND	ND	no	Italy
5. Wegmans Balsamic Glaze	Wegmans	ND	ND	Glaze	Italy
6. Wegmans Balsamic Glaze	Wegmans	ND	ND	Glaze	Italy
7. Ariston Traditional Balsamic	Wegmans	ND	ND	no	Italy
8. Cento Balsamic Glaze, plastic bottle	Wegmans	ND	ND	Glaze	Italy
9. Stonewall Kitchen Balsamic Vinegar	Amazon	ND	ND	no	Italy (bottled in US)
10. Napa Valley Naturals Balsamic Vinegar by Stonewall Kitchen	Amazon	ND	ND	no	Italy (bottled in US)