

Parenteral Trace Element Requirements*

	Preterm Neonates <3 kg (mcg/kg/day)	Term Neonates 3 – 10 kg (mcg/kg/day)	Children 10 – 40 kg (mcg/kg/day)	Adolescents >40 kg (per day)	Adults (per day)
Zinc	400	50 – 250	50 – 125	2000 – 5000 mcg	2500 – 5000 mcg
Copper	20	20	5 – 20	200 – 500 mcg	300 – 500 mcg
Manganese	1	1	1	40 – 100 mcg	60 – 100 mcg
Chromium	0.05 – 0.2	0.2	0.14 – 0.2	5 – 15 mcg	10 – 15 mcg
Selenium	1.5 – 2	2	1 – 2	40 -60 mcg	20 -60 mcg

*assuming normal organ function and losses

Current CW Product (compounded in house):

	Per 1 mL
Copper	100 mcg
Chromium	1 mcg
Selenium	15 mcg

Zinc is not included in trace element preparation and must be ordered separately.

Reference:

ASPEN Pediatric Nutrition Support Core Curriculum, 2010, pg. 441

From Mirtallo J, Canada T, Johnson D, et al. Safe practices for parenteral nutrition. *J Parenter Enterol Nutr.* 2004;28(6):S39-S70./

ASPEN Adult Nutrition Support Core Curriculum, 2017, Chapter 8