

### AMINO ACIDS

Conditions across the category remain stable with prices holding steady. Supply has continued to outpace demand keeping prices in check. Given these conditions buyers have been reluctant to book significant volumes for Q4.

Non-domestic producers have worked to steady prices even pushing for price increases heading into Q4. The overall trend predicted by experts is steady price conditions through the fall harvest.

INGREDIENT	Price Trend: 1 Month	Price Trend: 3 Month	Supply Availability
LYSINE	→	→↑	GOOD
THREONINE	→	→↑	GOOD
METHIONINE	↓	→	GOOD
TRYPTOPHAN	→	→↑	GOOD
VALINE	→	→	GOOD

### VITAMINS

Across the vitamin category, prices remain weak with good supply from contract to spot product available. Supply to local markets has increased as the lead team from international manufacturers to the local markets has decreased.

Buyers are reluctant to purchase more than month to month as prices are consistently declining. Unless demand increases, expect prices to remain weak as we approach Q4.

INGREDIENT	Price Trend: 1 Month	Price Trend: 3 Month	Supply Availability
VITAMIN E	↓	→	GOOD
VITAMIN A	↓	→	GOOD
CAL PAN	↓	→	GOOD
NIACIN	↓	→	GOOD
D3 500	↓	→	GOOD

## MINERALS

The market trend for micro trace miners continues to be stable to weaker pricing with increased availability. As supply lead times from international producers shortens, available supply has improved. With increased supply prices have decreased. The expectation is prices will continue to weaken into 2023.

For monocal, domestic prices are expected to remain unchanged through the end of the year. Supply remains under allocation with producers holding buyers to no more than their contracted volumes. Prices for 2023 will be determined as the end of the year approaches.

INGREDIENT	Price Trend: 1 Month	Price Trend: 3 Month	Supply Availability
MONOCALCIUM PHOSPHATE	→	→	INCREASING - STILL TIGHT
COPPER SULFATE	↓	↓	GOOD
ZINC SULFATE /OXIDE	↓	↓	GOOD

## DAIRY POWDERS

Overall trends for dairy powders are steady to lower pricing with consistent available supply. With international buying activity sluggish, supplies have increased.

The expectation is prices will remain stable to lower until there's an increase in global demand.

INGREDIENT	Price Trend: 1 Month	Price Trend: 3 Month	Supply Availability
WHEY PERMEATE	→	→ ↓	GOOD
LACTOSE	→	→	GOOD
WHEY	→ ↓	→	GOOD