

## AMINO ACIDS

Market conditions for lysine and threonine continue to be stable. Products are in good supply with strong competition for market share. Current price trends are predicted to continue through the quarter.

Tryptophan supplies remain tight and under allocation from most suppliers. November is expected to remain tight with hopeful relief of additional supply anticipated from producers in December.

Methionine producers are pressuring for higher prices in order to increase margins. Supply continues to outpace demand, so any increases are anticipated to be modest.

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

## DAIRY POWDERS

Trends for most dairy powders remain flat. Most markets have reached the price bottom with producers looking to push prices higher if possible. International demand continues to be inconsistent causing confusion on the direction of price trends through the end of the year.

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

## VITAMINS

Vitamin price trends continue to be sluggish as demand remains weak. Experts predict as long as supply outpaces demand prices will be stable to weak into next year.

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

Metal markets have been mixed lately with copper trending lower as demand continues to suffer especially in the consumer sectors given the global economy. Zinc has remained stable at lower levels as supply remains ample to meet buyer demands.

Monocalcium phosphate is unchanged now that Q4 price decreases have been implemented. Expect market trend to continue to be stable through the remainder of the quarter.

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