



# Premixes for Dairy

Dairy products are generally regarded as healthy. Milk contains many valuable nutrients, which contribute to balanced nutrition. Besides protein and fat, dairy products provide a wide range of micronutrients, such as fat-soluble vitamins and calcium. Milk by nature is the starter food for all mammals.

## AD<sub>3</sub> fortification

Milk and milk powders are commonly fortified with vitamins A and D<sub>3</sub>. Vitablend can offer a range of commonly used blends but more specific demands can be satisfied by adjusting the strength and packaging offered.

Both liquid and powder premixes are available. The liquid oil based AD<sub>3</sub> premixes are the most economical solutions for large volume producers with suitable homogenisation and stock solution holding capability. Small scale users will find our readily dispensable vitamin AD dry powder blends very convenient to use.

Blend	Presentation	Vitamin A content	Vitamin D <sub>3</sub> content
Vitamin A Palmitate oily	liquid, in alu cans	1.0 or 1.7 mio IU/g,	-
Vitamin A Palmitate CWS	powder, in bags	250 IU/mg	-
Vitamin A Acetate oily	liquid, in alu cans	1.0 mio IU/g	-
Vitamin A Acetate CWS	powder, in bags	325 IU/mg	-
Vitamin D <sub>3</sub> oily	liquid, in alu cans	-	1.0 mio IU/g
Vitamin D <sub>3</sub> CWS	powder, in bags	-	100 IU/g
AD <sub>3</sub> oily	liquid, in alu cans	1.0 mio IU/g	0.1 mio IU/g
AD <sub>3</sub> CWS	powder, in bags	250 IU/mg	0.25 IU/mg

Table: Examples of Vitablends solutions for AD<sub>3</sub> fortification

### Custom fortification concepts

Dairy products such as milk drinks and yogurts offer an ideal fortification vehicle with wide ranging appeal. Dairy products are already a rich source of calcium so it makes sense to boost the level of vitamin D present to enhance calcium absorption and metabolism. Many dairy products already on the market contain boosted vitamin D levels and Vitablend can assist on the process of designing a stable fortification solution and also boost natural levels of calcium and magnesium natively present to enhance nutrition claims.

Vitablend can also design and manufacture custom blends to appeal to specific markets.

### Possible concepts for consideration include

Energy for kids - B vitamins

Bone Health - vitamin A and D with calcium and magnesium

Beauty from within - vitamins A,C, E, biotin, niacin and selenium

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