

FEED ADDITIVE • TARGET SPECIES: RUMINANTS (DAIRY COWS, BEEF CATTLE, SHEEP, GOATS)

## Thermo® Plus

Natural heat stress management solution combining spices, electrolytes, green tea, and buffer substances to maintain thermal comfort, feed intake, and production performance in ruminants during hot and humid conditions.

### Key Benefits

- ✓ Strengthens natural thermoregulation mechanisms
- ✓ Provides cellular protection via green tea antioxidants
- ✓ Increases milk production by +1.4 L/cow on average
- ✓ Addresses respiratory alkalosis with buffer substances
- ✓ Stimulates feed intake during heat periods
- ✓ Offsets electrolyte imbalances from heat stress
- ✓ Improves growth in beef cattle by +85 g/d ADG
- ✓ Tested and approved in 8+ countries worldwide

### Product Characteristics

Form	Powder (feed incorporation or TMR)
Active ingredients	Spices (chilli, fenugreek), electrolytes (Na+, K+), green tea (Camellia sinensis), buffer (bicarbonate)
Target species	Dairy cows, beef cattle, heifers, sheep, goats
Origin	Made in France (CCPA Group)

### Mode of Action

Thermoregulation	Red chilli (Capsicum) regulates body temperature, stimulates salivation and ingestion
Antioxidant	Green tea (Camellia sinensis) neutralizes free radicals produced by heat stress
Electrolyte balance	Sodium and potassium offset mineral losses from panting and sweating
Buffer	Bicarbonate addresses respiratory alkalosis caused by increased respiration rate

### Proven Effects – Dairy Cows

Heat stress costs approximately €270 per cow per year (Feenstra, 2017). Above THI 71, dairy performance drops significantly: -2 to 4 L milk, -2 to 4 g/L fat, -5 to 30% ingestion, plus increased acidosis, lameness, mastitis, and reduced fertility. Thermo Plus has been proven effective across 8 countries in commercial field trials (2013–2020).



Dairy trials: Hungary, Czech Republic, Turkey, Morocco, France, Mexico, Brazil, Vietnam (2013–2020). Beef trials: Mexico (1500), Brazil (129), Portugal (144), Spain (90 animals).

### Feeding Recommendation

APPLICATION	METHOD	TIMING
Dairy cows & heifers	Feed incorporation or directly in TMR	Continuously during hot periods
Beef cattle	Feed incorporation or directly in TMR	Continuously during hot periods
Sheep & goats	Feed incorporation	Continuously during hot periods

Important: Start Thermo Plus at least 15 days before the assumed period of high temperatures, then use continuously during hot periods.

<p><b>When to Start</b></p> <p>Begin supplementation at least 15 days before the expected heat period. Continue throughout the hot season for consistent protection and performance.</p>	<p><b>THI Threshold</b></p> <p>Above THI 71 (Temperature Humidity Index), ruminant performances decline. Thermo Plus is designed to mitigate these effects from the root causes and symptoms.</p>	<p><b>Packaging &amp; Storage</b></p> <p>Powder for feed incorporation or TMR. Store in a cool, dry place protected from direct sunlight. Made in France by CCPA Group.</p>
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### About CCPA Group

CCPA Group is a French family-owned company specializing in animal nutrition since 1966. The Thermo® range is the result of decades of heat stress research, with proven efficacy across 8+ countries and multiple species. ThermoTool™ app available for monitoring heat stress risk. Distributed in Croatia and the region by Need4Feed d.o.o.