




Dosing and Administration



Zentonil® Plus

Available in 100, 200 and 400 mg scored divisible tablets for easy dosing.

Zentonil® Plus, with Microencapsulated SAME

Body Weight			
	100	200	400
2.5 kg	½	-	-
5 kg	1 tablet	½ tablet	-
10 kg	2 tablets	1 tablet	½ tablet
15 kg	-	1 ½ tablets	-
20 kg	-	2 tablets	1 tablet
30 kg	-	-	1 ½ tablets
40 kg	-	-	2 tablets

Tablets are scored for easy division into two parts but can be divided further if required.

Highly palatable, Zentonil can be used in all cases where the liver requires support in both dogs and cats. **Zentonil® Plus** with microencapsulation technology ensures optimal absorption of SAME.

Better Medicine. Better Business.

Since 1933, Vétoquinol has been a pioneer in the animal health field, developing hundreds of innovative treatment options for veterinarians around the world, including:

- Innovative renal, FHV-1, incontinence, hepatic and osteoarthritis support options
- Comprehensive line of dermatological shampoos, otic cleansing solutions and skin treatment products
- Nutritional supplements, probiotics and joint care

For your patients, it means longer and better quality of life. For you, it's the satisfaction that comes with delivering the best care possible.

1 - Center SA. SAME an antioxidant and anti-inflammatory nutraceutical. Proc 18th ACVIM 2000;550-552.

2 - Sartor L L, et al. Rational pharmacologic therapy of hepatobiliary disease in dogs and cats. Compend Contin Educ Vet Pract 2003;25:432-447.

3 - Flatland G. Botanicals, vitamins, and minerals and the liver: therapeutic applications and potential toxicities. Compend Contin Educ Vet Pract 2003;25:7:514-524.

4 - Mischoulon D, et al. Role of S-adenosyl-L-methionine in the treatment of depression: a review of the evidence. Am J Clin Nutr 2002;76(suppl):1158S-61S.

5 - Bottiglieri T. S-adenosyl-L-methionine (SAME): from the bench to the bedside – molecular basis of a pleiotropic molecule. Am J Clin Nutr 2002;76(suppl):1151S-7S.

6 - Alpert J E, et al. One-carbon metabolism and the treatment of depression: roles of S-adenosyl-L-methionine and folate. Chapter 5: Natural Medications for Psychiatric Disorders: Considering the Alternatives 2nd ed. Lippincott Williams & Wilkins, 2008.

7 - Data on file.

VET-0136 (4/2010)

Zentonil® Plus, with Microencapsulated SAME
Comprehensive Hepatic Support

The benefits of SAME with improved palatability now in scored tablets for enhanced dosing compliance.

Zentonil® Plus, with SAME, promotes healthy liver function in a new scored tablet

Healthy hepatic activity is responsible for a number of critical functions including: protein, fat, and carbohydrate metabolism; vitamin and mineral storage; digestion of food; and detoxification of wastes.

When compromised, the liver undergoes oxidative stress due to the production of free radicals. Antioxidants, primarily glutathione, clear these free radicals and help preserve function. Unfortunately glutathione production is decreased in pets with liver problems¹.

Because the liver has tremendous reserve capacities, hepatic conditions can go on for a long time before any clinical signs are observed. Recommending liver enzyme tests as part of a regular physical examination can help catch problems sooner, allowing for earlier intervention with **Zentonil® Plus** from Vétoquinol to help improve the prognosis.

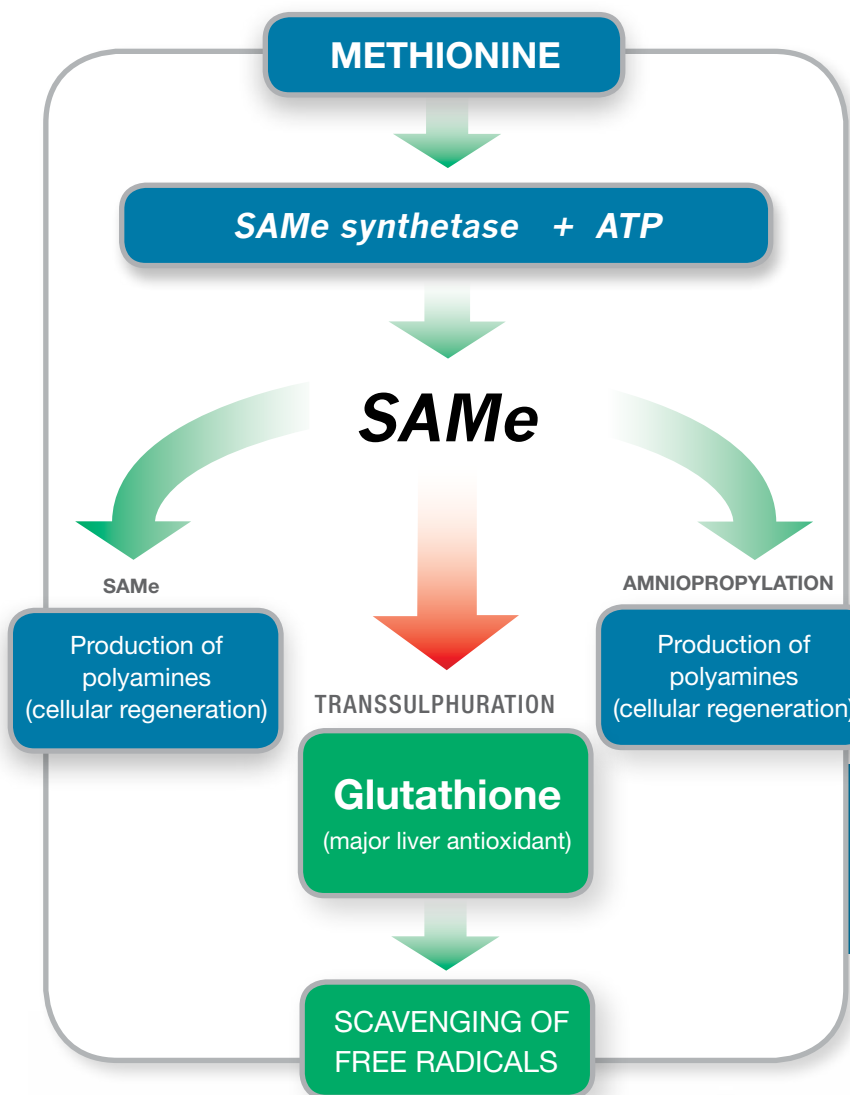
SAME Initiates Glutathione Production

S-adenosylmethionine (SAME) is derived from methionine and initiates the metabolic pathways for a number of bodily systems including glutathione production in the liver.

- Increases hepatic glutathione concentrations²
- Helps maintain plasma membrane fluidity and function³
- Involved in biochemical pathways that can help maintain normal liver cell function
- Vital role in production of neurotransmitters and neuronal cell membrane repair^{4,5}

While the benefits of SAME are clear, SAME must be absorbed in the intestines to ensure bioavailability. Traditional enteric coating, while effective, has significant limitations:

- The outside is coated after the tablet is formed
- Tablets must be administered whole



Zentonil® Plus Exclusive New Microencapsulation Technology

- SAME particles are encapsulated before being formed into a tablet
- Palatable tablets can be split, crushed or chewed for easier administration and accurate dosing

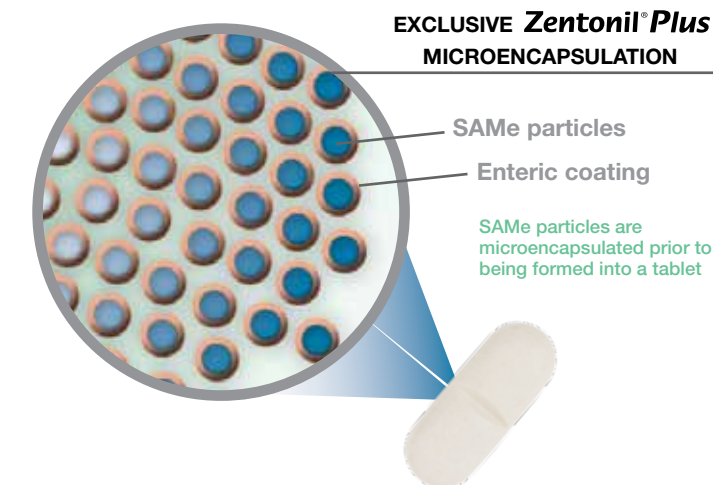
- Easy-to-administer to help increase compliance
- Proven palatability
- Rapid bioavailability

The Next Generation of SAME from Vétoquinol



Zentonil® Plus contains microencapsulated SAME in a divisible, highly palatable formulation for comprehensive hepatoprotection in acute or chronic cases. Ideal in:

- Subclinical or mild liver disease
- Regular administration of potentially hepatotoxic drugs (phenobarbital, NSAIDs, glucocorticoids, etc.)



The Benefits of SAME

- Maintains glutathione levels
- Maintains membrane structure and function
- Plays a role in protein synthesis
- Aids in hepatocellular regeneration
- Reduces pathological effect of certain inflammatory cytokines
- Plays a vital role in production of neurotransmitters
- May play a role in supportive care in cases of cognitive decline^{4,6}

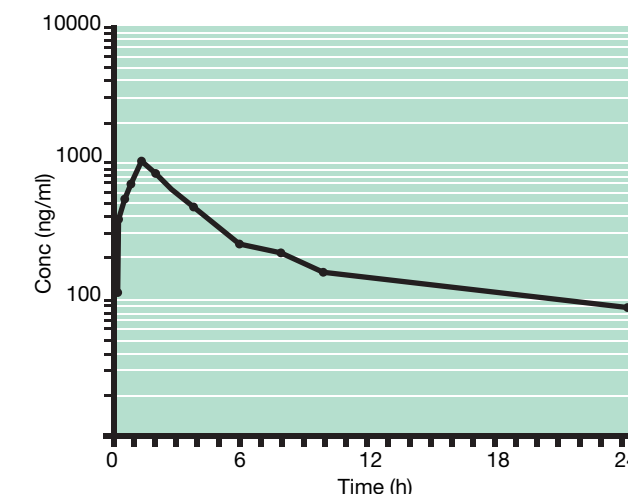
Proven Bioavailability

- SAME is available for use by the body within 10 minutes of administration⁷
- Peak levels are achieved between 1 to 4 hours after administration⁷
- Effective with or without food (Optimal results on an empty stomach)

Clinically Proven Palatable

- Chewable tablets improve ability to administer without food⁷
- Helps improve compliance

Mean plasma SAME profiles after administration of **Zentonil® Plus** tablet



Mean concentration-time profiles obtained after: **Zentonil® Plus** administration