

Staphage Lysate (SPL)[®]

**BUILDS NATURAL IMMUNITY TO
DEFEND AGAINST CANINE PYODERMA**



Dogs with compromised immune systems cannot rely on their innate immunity to protect themselves from staphylococcal skin infection. Sometimes their innate immune systems need a boost.



Staphage Lysate (SPL)[®] is designed to do just that. A naturally derived preservative free product, SPL[®] contains bacteriophage and the components of staphylococcal bacteria. It strengthens the immune system by stimulating phagocytosis and activating an anti-staph antigen response.



Its effectiveness was proven in a clinical trial, demonstrating a 77% reduction of recurrent canine pyoderma caused by *Staphylococcus pseudintermedius*.^{*1}



Now with SPL, your canine patients can use their own natural immune system to provide continual protection from canine pyoderma.

**Recommended to be used concurrently with antibiotics for first four to six weeks. Treatment tapers off to booster shots as needed. Please see package circular for full product information.*

¹Evaluation of a commercial staphylococcal bacterin for management of idiopathic recurrent superficial pyoderma in dogs, DeBoer DJ, Moriello KA, Thomas CB, Schultz KT. AM J Vet Res. 1990 Apr, 51(4): 636-9.



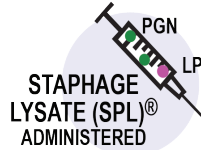
(PAMP) PATHOGEN-ASSOCIATED MOLECULAR PATTERN

Proposed method of natural immunity stimulation.²



Staphage Lysate (SPL)[®]

PGN - PEPTIDOGLYCAN
LP- LIPOPROTEIN



T HELPER
CELLS ACTIVATED



IFN- γ
IL-1 β
CYTOKINES
RELEASED



STAPH INGESTED
AND LYSED BY
PHAGOCYTES

PGN AND LP OF LYSED
BACTERIA RELEASED
BACK INTO IMMUNE
SYSTEM



²Toll-like receptors (TLRs) in innate immune defense against *Staphylococcus aureus*. Pietrocola G, Arciola CR, Rindi S, Di Poto A, Missineo A, Montanaro L, Speziale P. *Int J Artif Organs*, 2011; 34 (9): 799-810.

THIS DIAGRAM ILLUSTRATES HOW STAPHAGE LYSATE (SPL)[®] “STIMULATES” THE NATURAL PROCESS OF PAMP. THIS CYCLE IS CONTINUAL AS IT IS PART OF THE INNATE OR NATURAL IMMUNE SYSTEM.³

- Staphage Lysate (SPL), which is injected, contains LP and PGN, known stimulators of the innate immune system.
- The LP and PGN activate the T-helper cells.
- The T-helper cells release the cytokines IL1 Beta and IFN Gama.
- These cytokines activate the macrophage which help kill bacteria by phagocytosis.
- The macrophage engulfs the staph bacteria causing the release of LP and PGN from the staph, starting the cycle again.

³*Cytokines produced by human mononuclear cells upon stimulation by Staphage Lysate (SPL)[®]. Krishnan G, Ganfield DJ. Proceedings of 2nd Congress of the Federation of Immunological Societies of Asia-Oceania. January 2000.*

STAPHAGE LYSATE (SPL)[®] IS BACKED BY EXPERT SUPPORT

We work collaboratively with veterinarians everywhere who treat staphylococcal skin infection. Our experience can be a valuable resource. We also provide direct access to a board certified veterinary dermatologist to answer any of your clinical questions and guide you through the treatment process. We recognize the complexity and challenges surrounding diagnosis and treatment of this condition.

Please contact us at [1-800-562-5541](tel:1-800-562-5541) or email us at SPLVET@DELMONT.COM with any questions including contact information to a board certified veterinary dermatologist. This service is free to veterinarians.

DELMONT LABORATORIES, INC., 715 HARVARD AVENUE,
P.O. BOX 269, SWARTHMORE, PA 19081
[800-562-5541](tel:800-562-5541) | WWW.DELMONTLABS.COM | 2017V.1