



## LPS derived from *Pantoea agglomerans*

-*Pantoea agglomerans*: Isolated from wheat, found in most vegetables and grains.  
-Lipopolysaccharide (LPS) : a component of the outer membrane of bacteria.

Product name	Somacy-FL100	Somacy-FP100	SomacyRB-FP100
Form	Liquid	Powder	Powder
Display name	Fermented wheat flour extract	Fermented wheat flour extract	Fermented rice bran extract
Manufacturing method	Produced by extracting and purifying LPS from <i>Pantoea agglomerans</i> , which is fermented and cultured in a medium containing wheat flour.	Produced by extracting and purifying LPS from <i>Pantoea agglomerans</i> , which is fermented and cultured in a medium containing wheat flour, and then spray-dried using dextrin as a carrier.	Produced by extracting and purifying LPS from <i>Pantoea agglomerans</i> , which is fermented and cultured in a medium containing rice bran, and then spray-dried using dextrin as a carrier.
Active ingredient	LPS derived from <i>Pantoea agglomerans</i> isolated from wheat		
LPS Concentration	1% ( 10mg/mL )	1% ( 10mg/g )	
Recommended blending amount	15mg ~ 50mg/day ( ※150μg ~ 500μg/day as LPS )		
Implemented safety test	-In Vitro chromosomal aberration test -Bacterial reverse mutation test -Single Dose Toxicity Test -28-Day Repeated Dose Toxicity Test Using	-In Vitro chromosomal aberration test -Bacterial reverse mutation test -Single Dose Toxicity Test -28-Day Repeated Dose Toxicity Test Using	-In Vitro chromosomal aberration test -The bacterial reverse mutation test -Single Dose Toxicity Test -90-Day Repeated Dose Toxicity Test Using
Note	—	-Self-affirmed GRAS in the United States -NDI notified to the US FDA	—
Remarks	Analyzed by the LGC Limited (UK) to confirm the absence of anti-doping banned substances		

★ Somacy-FP100 is approved as, self affirmed GRAS and NDI

- GRAS (Generally Recognized As Safe)
- NDI (New Dietary Ingredients)

These approvals are proof that safety has been confirmed in the United States. In the United States, raw materials used in general foods must be approved as "GRAS," while raw materials used in supplements must be approved as "NDI." Both are reviewed for safety, the appropriateness of the manufacturing process, and quality control, and whether a substance is a GRAS substance is determined by a panel of qualified experts, while NDI substances are reviewed and approved by the U.S. Food and Drug Administration (FDA). GRAS and NDI substances mean that they are deemed safe by qualified experts and are manufactured in accordance with GMP processes.



自然免疫  
応用技研  
株式会社

〒761-0301

2F, 2217-6 Hayashi-cho, Takamatsu-Shi, Kagawa-Ken, Japan  
TEL : 087-867-7712 / FAX : 087-867-7737

<https://www.macrophico.jp>

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LPS learning

