

*Certificate of Analysis*

PRODUCT NAME: BioMarine®570 – FSMP  
(Food for Special Medical Purpose)  
 PRODUCT: Shark Liver Oil, Minimally Processed – 570mg  
 from Shark Liver Oil derived from Deep Water Sharks harvested in  
 the Tasman Sea and waters surrounding New Zealand  
 PRODUCT NO.: MNSG-151 (blister cards)  
 BATCH NO: 1709002  
 DATE OF MANUFACTURE: Sept., 2017  
 BEST BEFORE/RETEST BY: Sept., 2020

| General                          | Manufacturing Specification                                     | Results       | Method            |
|----------------------------------|---|---------------|-------------------|
| Pharmaceutical Form              | Clear, Soft Gelatin Capsule<br>Containing a Light Golden<br>Oil | Conforms      | Observation       |
| Size and Shape                   | 11 oval   | Conforms      | Observation       |
| Average Fill Weight              | 570 mg +/-5%  | 569 mg        | USP or equivalent |
| Acid <sup>1</sup>                | Max. 3 mg KOH/kg  | 0.2 mg KOH/kg | Ph. Eur. 2.5.1    |
| Peroxide value <sup>1</sup>      | Max. 5 meq/kg   | 0.9 meq/kg    | AOAC 965.33       |
| Anisidine <sup>1</sup>           | Max. 20   | 11            | IUPAC.D.26        |
| Lead <sup>1</sup>                | Less than 0.1 mg/kg   | Pass          | APHA 3125B        |
| Cadmium <sup>1</sup>             | Less than 0.1 mg/kg   | Pass          | APHA 3125B        |
| Mercury <sup>1</sup>             | Less than 0.1 mg/kg   | Pass          | APHA 3125B        |
| Arsenic (inorganic) <sup>1</sup> | Less than 0.1 mg/kg   | Pass          | APHA 3125B        |
| Disintegration time              | Max. 15 Minutes   | <10 min.      | USP or equivalent |
| Total Plate Count                | Max. 3000 CFU/g   | <10 CFU/g     | Ph. Eur./USP/AOAC |
| Yeast & Mold Count               | Max. 300 CFU/g  | <10 CFU/g     | Ph. Eur./USP/AOAC |
| <i>S. aureus</i>                 | Negative/10g  | Negative/10g  | Ph. Eur./USP/AOAC |
| <i>E. coli</i>                   | Negative/10g  | Negative/10g  | Ph. Eur./USP/AOAC |
| <i>Salmonella</i>                | Negative/10g  | Negative/10g  | Ph. Eur./USP/AOAC |
| Ingredients                      | Manufacturing Specification                                     | Result        | Methods           |
| Shark Liver Oil                  | 570 +/- 5%  | 569 mg        | Input             |
| Alkylglycerols                   | 120 mg  | 135 mg        | Input             |
| from DAGE                        | 305 mg  | 342 mg        | Input             |
| Squalene                         | 120 mg  | 121 mg        | Input             |

<sup>1</sup>Analysis performed on oil before addition of other ingredients. Shell ingredients: Gelatin, glycerin and purified water.



Caroline Lease, Quality  
October 19, 2017