



## CERTIFICATE OF ANALYSIS

Product: **TOP SPOT ON STRONGER 16.25 g, solution for application – spot-on for horse**

Batch No.: **615130A**

Expiry: **12/2024**

Date of production: **9.1.2023**

**Results of analysis:**

| Tests                             | Release limits                                                                                                                                          | Shelf-life limits   | Results                                      |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------|
| Appearance                        | Yellowish clear liquid.                                                                                                                                 |                     | conforms                                     |
| Solution volume                   |                                                                                                                                                         |                     |                                              |
| - nominal                         | min. 25 ml                                                                                                                                              |                     | 26 ml                                        |
| - usable                          | at least 25 ml                                                                                                                                          |                     |                                              |
| Density                           | 1.05 – 1.1 g/ml                                                                                                                                         |                     | 1.09 g/ml                                    |
| Permethrin identity               | Must be proved (HPLC).                                                                                                                                  |                     | conforms                                     |
| Permethrin content                | 617.5 – 682.5 mg/ml                                                                                                                                     | 585.0 – 682.5 mg/ml | 671.9 mg/ml                                  |
| Impurities                        |                                                                                                                                                         |                     |                                              |
| - individual unspecified impurity | max. 1.0 %                                                                                                                                              |                     | conforms                                     |
| - sum of impurities               | max. 2.5 %                                                                                                                                              |                     | 0.4 %                                        |
| Butylparabene identity            | Must be proved (HPLC).                                                                                                                                  |                     | conforms                                     |
| Butylparabene content             | 0.95 – 1.05 mg/ml                                                                                                                                       | 0.90 – 1.10 mg/ml   | 0.99 mg/ml                                   |
| Butylhydroxyanisole identity      | Must be proved (HPLC).                                                                                                                                  |                     | conforms                                     |
| Butylhydroxyanisole content       | 0.18 – 0.22 mg/ml                                                                                                                                       | 0.16 – 0.22 mg/ml   | 0.22 mg/ml                                   |
| Butylhydroxytoluene identity      | Must be proved (HPLC).                                                                                                                                  |                     | conforms                                     |
| Butylhydroxytoluene content       | 0.09 – 0.11 mg/ml                                                                                                                                       | 0.08 – 0.11 mg/ml   | 0.10 mg/ml                                   |
| Microbiological quality           | Must comply.<br>TAMC (CFU/ml): $10^2$<br>TYMC (CFU/ml): $10^1$<br>Absence of Staphylococcus aureus in 1 ml<br>Absence of Pseudomonas aeruginosa in 1 ml |                     | <10 CFU/ml<br><10 CFU/ml<br>absent<br>absent |

I certify that this product has been tested in the laboratories of Bioveta a.s. and has been found to meet specification requirements. Preparation is suitable with control regulations of the valid PN No. 377,V001.



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13/2/2023  
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