



## CERTIFICATE OF ANALYSIS

Product: **TOP SPOT ON STRONGER 650 mg, solution for application – spot-on for dogs**

Batch No.: **895531A**

Expiry: **04/2026**

Date of production: **3.5.2024**

**Results of analysis:**

| Tests                             | Release limits                                                                                                                                          | Shelf-life limits   | Results                                      |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------|
| Appearance                        | Yellowish clear liquid.                                                                                                                                 |                     | conforms                                     |
| Solution volume                   |                                                                                                                                                         |                     |                                              |
| - nominal                         | min. 1 ml                                                                                                                                               |                     | 1.0 ml                                       |
| - usable                          | at least 1 ml                                                                                                                                           |                     |                                              |
| Density                           | 1.05 – 1.1 g/ml                                                                                                                                         |                     | 1.084 g/ml                                   |
| Permethrin identity               | Must be proved (HPLC).                                                                                                                                  |                     | conforms                                     |
| Permethrin content                | 617.5 – 682.5 mg/ml                                                                                                                                     | 585.0 – 682.5 mg/ml | 641.69 mg/ml                                 |
| Impurities                        |                                                                                                                                                         |                     |                                              |
| - individual unspecified impurity | max. 1.0 %                                                                                                                                              |                     | conforms                                     |
| - sum of impurities               | max. 2.5 %                                                                                                                                              |                     | 0.17 %                                       |
| Butylparabene identity            | Must be proved (HPLC).                                                                                                                                  |                     | conforms                                     |
| Butylparabene content             | 0.95 – 1.05 mg/ml                                                                                                                                       | 0.90 – 1.10 mg/ml   | 1.005 mg/ml                                  |
| Butylhydroxyanisole identity      | Must be proved (HPLC).                                                                                                                                  |                     | conforms                                     |
| Butylhydroxyanisole content       | 0.18 – 0.22 mg/ml                                                                                                                                       | 0.16 – 0.22 mg/ml   | 0.190 mg/ml                                  |
| Butylhydroxytoluene identity      | Must be proved (HPLC).                                                                                                                                  |                     | conforms                                     |
| Butylhydroxytoluene content       | 0.09 – 0.11 mg/ml                                                                                                                                       | 0.08 – 0.11 mg/ml   | 0.104 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. 375,V002.



*Hana Nezvalová*  
15/7/2024  
Mgr. Hana Nezvalová  
HEAD of QC, QP