



QL AGRI®

100% *Quillaja saponaria* extract

TECHNICAL DATA SHEET

DESCRIPTION: QL *Agri*® is a concentrated natural extract of Chilean Soap Bark Tree *Quillaja saponaria* Molina, rich in naturally triterpenic saponins, glyco-components, tannins, antioxidants and polyphenols. It has no solvents or carriers. QL *Agri*® is an **OMRI** listed.

DKI PRODUCT CODE: 30-1-03

APPEARANCE: Dark red- brown liquid.

CONCENTRATION: 35.0 ± 2.0 °Brix (20° C, by hydrometer)

pH: 3.9 ± 0.2 (direct measurement)

SAPONINS: ≥ 6.0 % w/w by UPLC C-18

DENSITY: ≥ 1.145 g/cm³

SOLUBILITY: Very soluble in water, insoluble in acetone, butanol, ethanol and methanol.

PRESERVATIVE: None

PACKAGING: Packed in five or fifty five gallons HDPE plastic containers.

SHELF LIFE: Two years when stored at 5 to 25° C in the unopened originally sealed container.

*Note: as a natural extract there may be some slight settling of insoluble solids found over time in the bottom of the containers.

DIRECTIONS: Soil amendment applied through drip irrigation or sprinkler. Recommended application rates 25 to 30 liters per hectare or 2.5 to 3.0 gallons per acre. For more details please contact your local supplier.

REGULATORY: *Quillaja saponaria* Molina is listed in Class 4A inert ingredients and exempt from the requirement of a tolerance as specified in 40 CFR 180.1001. It is approved for use in food and beverages by the FDA under 21 CFR 172.510, FEMA GRAS number 2973 and CAS number 68990-67-0; and in the European Union for use in water-based non-alcoholic drinks under code E 999. QL *Agri*® is not intended for human consumption.

