ALHYDROGEL® - ALUMINIUM HYDROXIDE GEL

- Best studied aluminium adjuvant product in the world
  - ≥ 5.570 hits on Google Scholar
  - ≥ 282 unique publications on PubMed.gov
- +75 years history of safe and effective use in commercial vaccines
- Produced in classified clean rooms to prevent contamination
- Sterilized and aseptically filled in class A clean room
- EU GMP (Part I: Medicinal Products for Human and Veterinary Use) certified production of aseptically prepared sterile products
- Low levels of metals (Cu, Ni, Fe) may improve antigen stability (Schlegl et al., 2015)

**Product Presentation:**
Alhydrogel® is a range of aluminium hydroxide gel products which have been specifically developed for use as an adjuvant in vaccines. The gel is a suspension of boehmite-like (aluminium oxyhydroxide) hydrated nano/micron size crystals in loose aggregates. The products have a very low conductivity as a result of the proprietary production process.

Alhydrogel® products have a positive charge at neutral pH and effectively adsorb negatively charged antigens. The primary purpose of the adjuvant in vaccines is to boost the antibody-mediated (Th2) immune response to the antigens. Alhydrogel® products can be combined with other adjuvants types (such as MPL) to achieve a well-rounded Th1/Th2 immune response.

Alhydrogel® was elected as the International Standard Preparation for aluminium hydroxide gels at an independent scientific workshop in Greece in 1988 and 1990 (ref. Stewart-Tull 1989 and 1991).

Alhydrogel® is supplied in concentrations of either 6.5 mg/ml or 10 mg/ml aluminium. A premium version (Alhydrogel® “85”) with approximately ca. 20% higher protein adsorption capacity is also available.

**Main applications:**
- Human Vaccines
- Veterinary Vaccine
- Blood plasma fractionation (Example: Factor VIII purification)

**Standard Packaging:**
Alhydrogel® is supplied in the following standard HDPE container options:
- 250 ml infusion bottles equipped with a stopper/crimp closure
- 5 kg cans with screw caps
- 25 kg cans with screw caps

**About BRENNTAG BIOSECTOR**
Brenntag Biosector is a leader in the global vaccine adjuvants market and has a long history of producing high quality products. Originally founded in 1939, the company’s products are widely accepted as the international standard within their classes.