BAYSE™ Bio-SAP Redefines Sustainable Diaper Technology with Premium Performance

The global hygiene and absorbent products industry is witnessing a transformative breakthrough as biotechnology innovator ZymoChem introduces a sustainable alternative that challenges decades of dependence on petroleum-based absorbent materials. With the successful independent In-Home Use Test (IHUT) of its BAYSE™ Bio-SAP diapers, the company has demonstrated that sustainability and premium performance can now go hand in hand.

Conducted during the first quarter of 2026 across households in the United States, the study evaluated Size 4 diapers powered by BAYSE™ Bio-SAP under real-world conditions over a period of three to four days. The results showcased exceptional consumer acceptance and product performance, marking a significant advancement for bio-based hygiene technologies.

One of the most remarkable findings from the study was that 92% of parents reported strong overall appeal, while 76% expressed purchase intent after learning about the product's bio-based, microplastic-free, and biodegradable properties. Even before understanding the technology behind the diapers, parents rated them highly in critical performance areas such as absorbency, leak protection, skin comfort, and fit. More than half of the respondents preferred the BAYSE™ Bio-SAP diaper over the brands they regularly use.

The test results further revealed that an estimated 95.2% to 96.8% of diapers did not experience leakage during usage, reinforcing confidence in the product's reliability and premium functionality. The study also highlighted strong consumer appreciation for dryness, odor retention, and softness — qualities that are essential for modern diaper applications.

For decades, the diaper industry has largely depended on petroleum-derived super absorbent polymers (SAPs). ZymoChem's BAYSE™ Bio-SAP is now proving that environmentally responsible materials can compete directly with conventional technologies without sacrificing performance. This innovation represents a major milestone for diaper manufacturers, hygiene brands, retailers, and sustainability-focused investors seeking scalable, eco-friendly material solutions.

Powered by ZymoChem's proprietary Carbon Conserving™ technology, the company is advancing the global transition toward renewable feedstocks and fossil-independent materials. The success of BAYSE™ Bio-SAP signals a promising future where sustainability is no longer viewed as a compromise but as a competitive advantage driving the next generation of consumer products.