

# Cost Estimation Methodology for BRIGHT Financial Projections

## Overview

BRIGHT's financial projections for the startup phase (2031-2035) are based on comprehensive market research combining direct supplier quotes, government databases, university partnership agreements, and industry benchmarks. This methodology ensures realistic and defensible cost estimates for the Dutch biotechnology startup environment, with all projections using conservative assumptions and built-in contingencies.

## Research Methodology

The cost estimation process employed multiple validation sources for each expense category, utilizing direct market inquiries, publicly available data, and industry-specific benchmarks. All estimates represent middle-to-upper range pricing to ensure conservative financial planning. Cost projections account for team scaling from four employees at the start to eight employees by 2035 and include appropriate contingencies for startup uncertainties.

## Production Costs Methodology

### Lab Space Costs

Lab space costs are based on direct quotes from Twice Eindhoven, the TU/e campus-affiliated startup incubator, and comparable commercial lab facilities in the Eindhoven region. Initial costs of €15,000 (2031) reflect university partnership rates, scaling to €25,000 (2034-2035) for commercial-grade laboratory space as the company transitions to full independence. This progression accounts for the natural evolution from university-supported operations to independent commercial facilities, with costs validated against commercial laboratory space market rates throughout the Eindhoven region.

### Lab Materials and Equipment

Equipment costs are derived from the Charter Capital laboratory startup equipment database and validated through direct supplier quotes [1]. Major equipment pricing includes specialized diagnostic instruments essential for bacterial overgrowth testing development and production. The most significant investments include an Imager (€40,000) based on Bio-Rad ChemiDoc series market pricing, an ÄKTA Protein Purification System (€80,000) following Cytiva/GE Healthcare list pricing, a Plate Reader (€15,000) aligned with BioTek/Agilent standard models, and a NanoDrop Spectrophotometer (€15,000) based on Thermo Scientific current pricing. Additional laboratory infrastructure totalling €69,700 represents multiple supplier quotes (E.g. Sigma-Aldrich, VWR and Fisher Scientific) for essential equipment including incubators, thermocyclers, and safety equipment.

Annual consumables encompass chemical supplies ranging from €10,000 to €25,000 and laboratory consumables from €2,000 to €10,000, based on standard pricing catalogs and bulk purchase agreements from major suppliers including Sigma-Aldrich, VWR International, and Fisher Scientific. These costs scale with production volume and reflect industry-standard consumption patterns for diagnostic test development and manufacturing.

## Software Licensing

Software costs are based on official vendor pricing for startup and academic licenses, with calculations for both individual and team scaling requirements. MATLAB licensing costs €6,320 per year for four users, scaling to €12,640 per year for eight users, based on MathWorks startup licensing program pricing of €1,580 per individual license [2]. Microsoft 365 with Copilot integration costs €1,613 per year scaling to €3,226 per year, calculated at €33.60-€48.70 per user per month [3]. AI licensing through services like OpenAI or Claude costs €1,200 per year scaling to €2,400 per year at \$20-\$30 per user per month [4][5]. An extra €1,000 is reserved for additional licenses, growing to €5,000 in 2035 to accommodate the company growth.

## Hardware Costs

Hardware costs focus primarily on 3D printing services for prototype development of the home-based POCT, based on local service provider pricing analysis. €500 is reserved annually for this. This estimate is based on comparisons with other local 3D printing service providers.

## Marketing Costs Methodology

### Congress Participation

Congress costs are based on comprehensive analysis of major European gastroenterology conferences, with registration fees and material costs researched across multiple years and events. The United European Gastroenterology (UEG) conference requires an €830 registration fee, while additional healthcare conferences average €500-€1,000 per registration [6][7]. This research led to an annual conference budget of €6,000 for multiple conference participation during the first three years to promote the product, reducing to €2,400 in 2034 and 2035 as market presence becomes established. Material costs include €1,500 for initial setup and €500 for annual updates to promotional materials.

### Travel Costs

Travel cost projections are based on European business travel analysis and accommodation/transport cost research for key target markets including Denmark, Germany, and the Netherlands. An estimation was done by comparing booking sites and by talking with industrial partners about their experiences. The budget allocation of €10,000 per year during the intensive market development phase (2031-2033) reduces to €4,000 per year once established market presence is achieved (2034-2035). These figures incorporate comprehensive cost analysis including flights, accommodation, local transport, and meals for business development activities.

### Additional Advertising

Advertising budget projections are based on digital marketing cost analysis and trade publication advertising rates. The budget progression begins at €5,000 per year for market entry activities, reducing to €1,000-€1,500 per year for maintenance marketing as brand recognition develops. This approach reflects industry marketing spend benchmarks for medical device startups entering European markets.

## Office and Administrative Costs Methodology

### Office Space

Office space costs are based on direct quotes from Eindhoven startup incubators and flexible workspace providers, with detailed cost-per-employee analysis for different space configurations. Microlab Eindhoven offers private offices at €400-€450 per month, dedicated desks at €300 per month, and nomad desks at €210 per month. Twice Eindhoven provides university-affiliated startup rates including 24/7 access, meeting rooms, and community events at €245-€345 per month based on company growth. Since BRIGHT is already closely connected with Twice Eindhoven, their partnership plan has been incorporated into the budget. Alternative workspace providers throughout the Eindhoven region were also analysed to validate pricing competitiveness.

### Office Materials and Equipment

Office setup costs are based on comprehensive business equipment pricing. Major components include computers and monitors at €2,000 per employee setup, business internet connectivity ranging from €1,421 to €2,121 per year, initial comprehensive office setup costs of €100,000, and annual maintenance and upgrades budgeted at €3,000 per year. These figures were validated through Twice Eindhoven partnership agreements and MediaMarkt and Coolblue business equipment pricing.

## General Costs Methodology

### Salary Research

Salary projections are based on comprehensive analysis of Dutch government databases, job market research, and industry-specific compensation reports. Netherlands salary benchmarks include Laboratory Assistants at €31,782-€32,364 starting salary, Laboratory Analysts at €36,600-€37,632, Laboratory Workers with university degrees at €3,470 per month (€41,640 per year), and Microbiologists at €3,500-€5,100 per month [8][9][10]. BRIGHT's calculation of €45,000 per year per employee includes base salary, employer taxes, benefits, and recruitment costs, representing competitive compensation for university graduates in the biotechnology sector, while keeping in mind the fact that it is a start-up [11].

### Legal and Professional Services

Legal cost estimates are based on startup legal service provider consultations and talks with a regulatory expert [12]. Cost breakdowns include entity formation at €2,500-€5,000 for incorporation, bylaws, and filing paperwork, contract drafting at €2,000-€5,000 for partnerships, employment, and vendor agreements. The budget allocation includes €4,000 for final setup in 2031 and €2,000 for initial setup for a home-based POCT in 2035. Costs for intellectual properties were estimated at €2,000, covering annual payments while reserving money for possible future patents. This was based on intellectual property protection at €225-€400+ per trademark class with €5,000-€10,000 for Dutch national patents informed by TU/e IP guidelines for student startups and Dutch intellectual property law firm consultations [13].

### Insurance Requirements

Insurance costs are based on Dutch business insurance requirements and Chamber of Commerce recommendations for startup coverage [14]. Required and recommended coverage includes business liability insurance essential for laboratory operations,

professional indemnity insurance for medical device liability coverage, key person insurance for founder protection, and disability insurance as recommended by KVK. Industry standard cost range analysis shows €600-€1,200 for small businesses, while BRIGHT's conservative estimate of €2,000-€3,000 per year ensures comprehensive coverage [15][16].

## Revenue Projection Methodology

### Market Analysis

Revenue projections are based on European gastroenterology market analysis. The pricing strategy of €100 per test aligns with healthcare reimbursement rates. The market penetration model progresses from 1,000 tests in 2032 (market entry with pilot customers) to 31,000 tests in 2035 (representing 30% target market share), validated through healthcare technology adoption curve analysis and competitive product launch case studies in medical diagnostics.

The company will execute a diversified funding approach through staged investment rounds for operational scaling, while simultaneously pursuing grant opportunities such as Biotech Booster, NWO and EIT Health..

## Validation and Quality Assurance

### Cross-Validation Process

All cost projections underwent multi-source validation, including peer review with TU/e business developers along with our industrial partners, and industry benchmarking against comparable medical technology startups. The methodology employs conservative financial planning through upper-middle range cost estimates, slower revenue ramp assumptions compared to optimistic scenarios, and higher-than-average employee compensation planning.

### Limitations and Risk Factors

Key assumptions include stable economic conditions, maintained EU medical device regulations, continued TU/e collaboration, and projected gastroenterology market growth. Known limitations encompass prototype development cost uncertainties, regulatory approval timeline variables, potential market competition impacts, and rapid technology advancement requirements.

## Conclusion

This comprehensive methodology provides a robust foundation for BRIGHT's financial projections, utilizing validated data sources and conservative assumptions appropriate for startup planning and investor presentations. Regular quarterly reviews and annual comprehensive validations ensure continued accuracy and relevance of all cost estimates.

## References

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