Making Fridge-Free Vaccines A Reality



Committed to Launching World's First Fridge-Free Vaccines

Q3 2023

Confidential

Stablepharma is seeking pre-IPO bridge funding in advance of an IPO in 2024

Seeking funding to bring fridge-free vaccines to market and ...



million

Series A Close

Since closing Series A in October 2022, Stablepharma has:

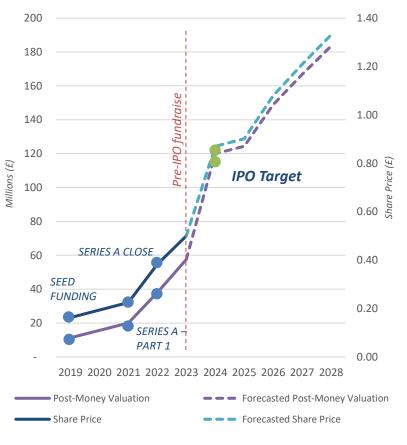
- · Taken commercial exclusivity of two vaccine products
- Published peer-reviewed article in Vaccine (Elsevier)
- Made significant progress on product development and GMP manufacturing
- Held initial MHRA and EMA regulatory discussions
- Signed CDAs with major pharmaceutical companies to progress partnership discussions

Pre-IPO bridge / IPO

market

£5-10 million	Bridges the path to the commercialisation process
£15-20	Completes the commercialisation process and brings the two fridge-free products to

... to build on the significant value creation since the first seed funding round in 2019^(a)







Our vision

"Every **20 seconds** a child dies from a vaccine preventable disease" Bill & Melinda Gates Foundation

> Our vision is to save lives and reduce global wastage by making fridge-free vaccines a reality

We are converting established vaccines to fridge-free forms and bringing them to market

Stablepharma are experts at creating fridge-free formulations of medicines through a combination of in-house expertise and patented technologies



Storage and transport of vaccines and other pharmaceutical products in a fridge or freezer can be expensive, wasteful, risky and damaging to the environment⁽¹⁾

Challenges	Stablepharma has eliminated several challenges across the development and commercialisation process					
Scientific	Established proof-of-concept <i>in vivo</i> and <i>in vitro</i> – thermostable at +45°C for 12 months					
Regulatory	Clear regulatory path established with MHRA and EMA					
Clinical trials	Small trial needed for approval – time and capital efficient approach					
Commercial	Commercial rights to two reformulated vaccines – exclusive supply agreements signed					
Scalability	GMP manufacturing process established with Thermo Fisher Scientific					



Our solution addresses current cost, waste and environmental vaccine challenges



Challenges		StablevaX™
Cost ∯	\$400M per annum spent on cold-chain requirements ⁽³⁾	Eliminates the need for cold-chain storage and transport
Waste	Up to 50% of vaccines are wasted globally each year ⁽¹⁾	Stabilisation reduces risk of ineffective vaccines due to extreme temperatures
	Short shelf life of vaccines leading to wastage	StablevaX vaccines can be stored for extended periods of time at room temperature
ESG ↓	Cold-chain significantly contributes to global carbon footprint	Reduces CO_2 footprint of the cold- chain





Our solution solves different challenges in each target market

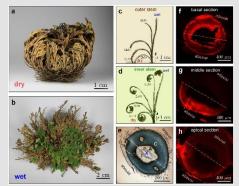


	High-income countries	Middle- and low-income countries
Potential regions	Europe, North America, Middle-East, Asia-Pacific	Africa, South America
Key focus of markets	 Cost to healthcare systems Wastage Sustainability Convenience and reliability 	AccessPharmaceutical supply chain
Potential benefits from our solution	 Decrease need for refrigeration space in small community and regional primary care practices Reduces wastage due to expiry with extended shelf-life of product Minimises environmental impact of cold-chain transportation related to vaccines Positive impact on overall health budget 	 Eliminates the need for costly transportation and storage in regions with limited cold-chain supply structures/equipment Improves ability of healthcare professionals to reach and deliver immunisation programmes or ad-hoc wound care

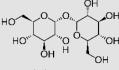




Our StablevaX[™] platform utilises sugar glass structures to preserve vaccines and their thermostability



Hydro-responsive resurrection plant employing trehalose to go into suspended animation The resurrection plant can survive for extended periods of time without water as a result of its ability to produce trehalose.



Trehalose structure

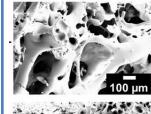
Trehalose is able to protect the plant as it dries out and enables the plant to grow when water becomes available.

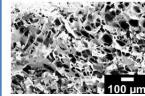


Tetanospasmin structure

Vaccine structures are prone to denaturing and unfolding at extreme temperatures rendering them ineffective

StablevaXTM





Stablepharma uses sugar glass structures and other excipients to reformulate existing vaccines into thermostable products

Sugar alass structures

Inert nature of sugar glass structures does not interact with vaccine

Stable at extreme temperatures yet highly soluble

60+ vaccines can be stabilised using this technology



Our StablevaX[™] platform can be deployed in several formats

StablevaX[™] can be applied to form a portfolio of different products that are adapted to healthcare professional and patient needs

Products will be initially developed in vial format to accelerate commercial potential. No modification is required to the current industrial manufacturing process to produce the lyophilised vials.

Vial with diluent

Single-dose vial with rapidly dissolving fridge-free formulation, accompanied by diluent, such as water for injection (WFI)

Syringe formulations will be developed post-vial launch. Some modification is required to the current industrial manufacturing process.

Pre-filled Syringe (PFS)

Pre-dosed syringe with rapidly dissolving fridge-free formulation, accompanied by diluent

Sponge Matrix that contains single-dose of vaccine



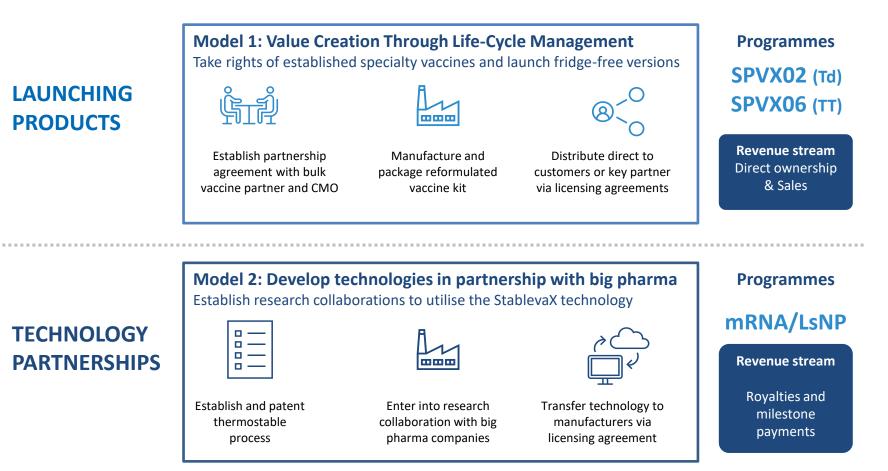


A pipeline of products and technologies have progressed from research into development



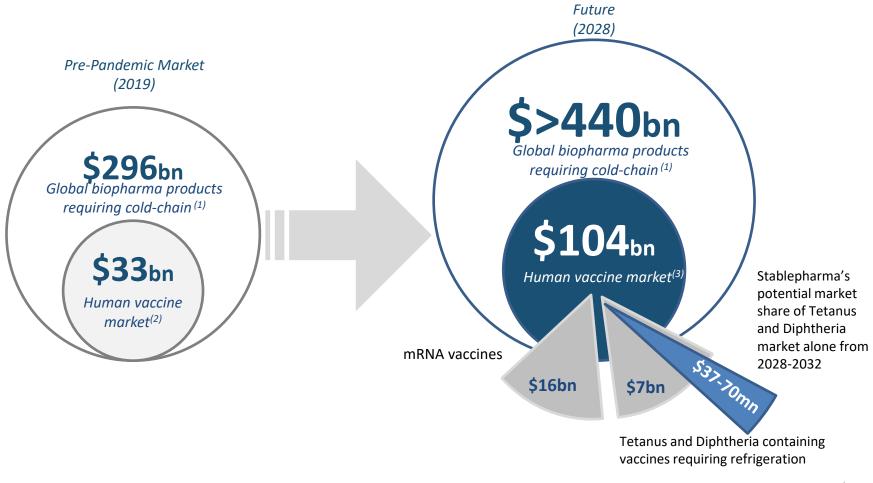


We are pursuing a dual commercial go-to-market path





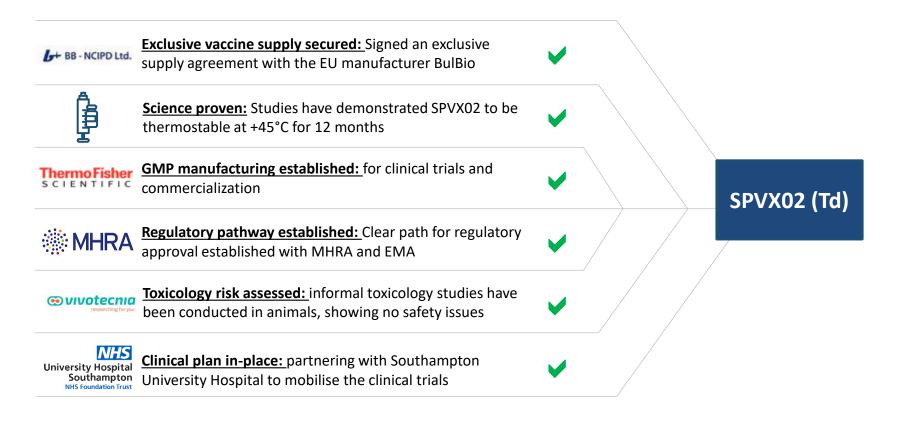
The dual approach will enable us to capture a substantial global market opportunity





SPVX02 for Tetanus diphtheria (Td) well on track to launch in 2025

Stablepharma have made significant progress on developing SPVX02





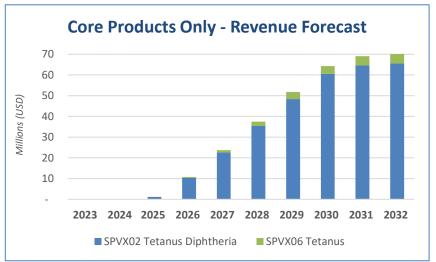
We have significant advantages against current competition

Stablepharma has clear competitive advantage with the commercial ownership of two vaccines, low-cost base (no phase 3 required) and adherence to WHO guidelines

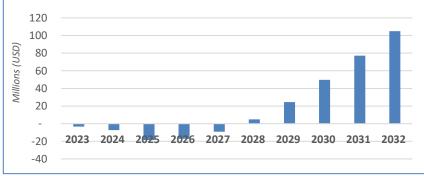


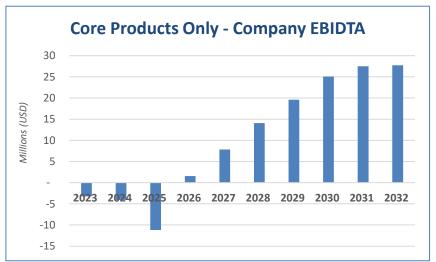


Our Core Financials include revenue from SPVX02 & SPVX06 only and demonstrate attractive, low-risk financial returns^(a)



Core Products Only - Company Cumulative Cash Position





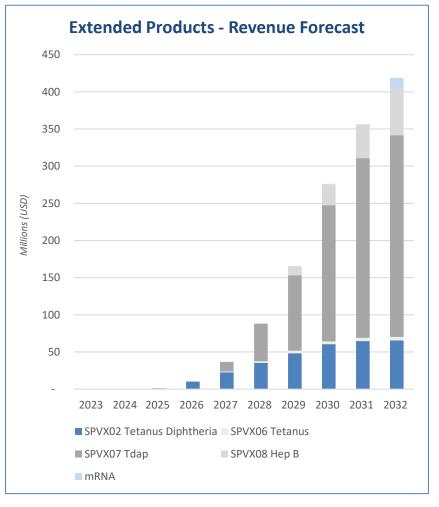
Core Products Only - NPV (20 Year) Progression

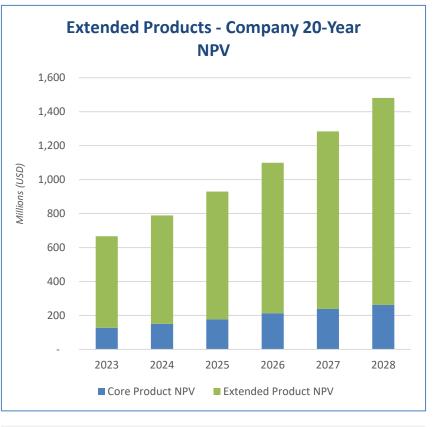
20-Year NPV from Start Year						
2023	\$127,087,011					
2024	\$150,532,894					
2025	\$177,586,678					
2026	\$212,715,193					
2027	\$238,088,735					
2028	\$262,049,625					



Note: (a) The core financials are shown in tabular form in the Appendix

Our Extended Financials include SPVX07, SPVX08 and mRNA Partnership Revenue, showing significant upside potential

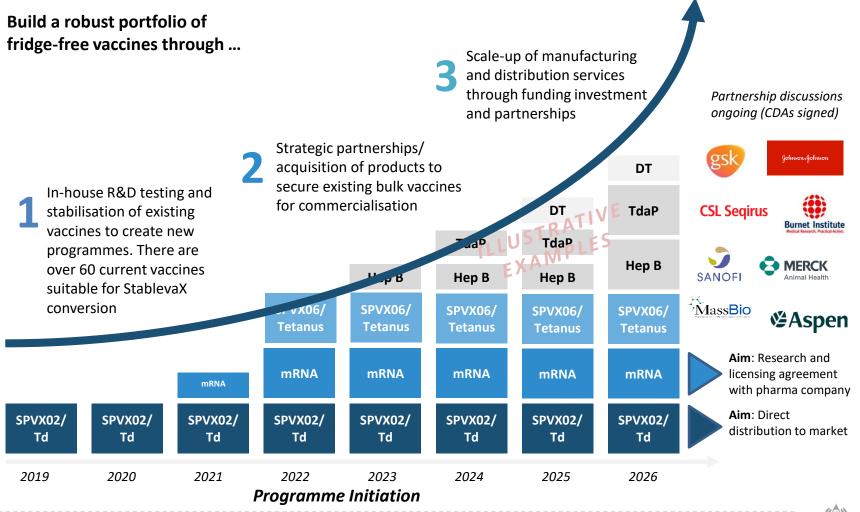




The Extended Financials are intended to be illustrative and are dependent on closing deals for the supply of TdaP and HepB vaccines, and striking mRNA partnership deals.



We are building a fridge-free portfolio in partnership with established pharmaceutical manufacturers





We are an international team across UK and Spain





We are seeking pre-IPO bridge funding in advance of an IPO in 2024

Round	Seed		Series A	Pre-IPO bridge	IPO			
	Q2 2019	Q2 2021	Q3 2022	2023	2024			
Amount	Target Raise: £700k Actual Raise: £1.3m (oversubscribed)	Target Raise: £2m Actual Raise: £2m (oversubscribed)	Target Raise: £3m+ Actual Raise: £3.2m	Target Raise: £5-10m	Target Raise: £15-20m			
		Total Series A to	tal raise of max: £5.2m					
Pre-money valuation	£10million	£18million	£30million	Target of £50million	<i>Target of</i> >£100million			
Post-money valuation	£11.3million	£20million	£33.2million/ £38million (fully diluted)					
	Pre-IPO bridge fundin	g will enable Stableph	arma to:					
	 Complete human comparative trials of SPVX02 (3-month trial with 48 healthy adults) Progress regulatory approval of SPVX02 with MHRA and EMA Perform pre-clinical trial testing for SPVX06 Commence clinical trials 							
	mRNA-LNP	 Progress mRNA R&D in collaboration with external partners (expected to be partially funded by partners) Sign a research collaboration with first pharmaceutical company 						
	Corporate Development							



We have a clear execution and commercialisation timeline

SPVX02 (Td) SPVX06 (TT)	Å	 Manufacture GMP batches for SPVX0 clinical toxicology 	\[\[\]	SPVX02 clinical toxicology SPVX02 first-in- human trial recruitment SPVX06 animal challenge outcomes		 Manufacture of GMP batches for SPVX06 comparative trial SPVX06 first-in- human trial preparations 	•	SPVX02 first-in human trial outcomes Regulatory filin SPVX02 to MHRA/EMA	ngs for Launch of SPVX02 Maximised commercial
mRNA-LNP	2023	*	ablished thermo- bilisation process		@ 8-8 	 License technology (i.e. royalty and milestone payment) to major pharmaceutical company 			potential of SPVX02 and SPVX06 across the globe Established manufacturing process and regulatory pathways for future vaccine and other pharmaceutical products onwards
Corporate Development		Q3 Partnership discussions on manufacturing, distribution and sales		Q1 nitiation of portfolio expansion into other vaccine and oharmaceutical products Geographic networks established for GPVX02 supply and distribution	Q2	Q3 Completion of	Q4 IPO		Established economies of scale to provide products to developing world markets Progression of cost synergies across product portfolio



Appendix: Core Financials (SPVX02 and SPVX06 Only)

	1	2	3	4	5	6	7	8	9	10
	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
1. Core Product Contribution										
1.1 SPVX02 Tetanus Diphtheria										
1.1.1 Revenues	0	0	1,180,191	10,300,000	22,658,119	35,348,820	48,379,679	60,518,050	64,600,752	65,480,357
1.1.2 Development Costs	(1,211,063)	(1,292,284)	(2,454,421)	(125,158)	(145,874)	0	0	0	0	(
1.1.3 Ongoing Costs	0	0	(3,906,363)	(349,027)	(7,548,647)	(11,382,282)	(15,421,270)	(18,960,319)	(19,988,817)	(20,262,370
1.1 SPVX02 Financial Contribution	(1,211,063)	(1,292,284)	(5,180,593)	9,825,815	14,963,598	23,966,538	32,958,409	41,557,731	44,611,935	45,217,987
1.2 SPVX06 Tetanus										
1.2.1 Revenues	0	0	0	444,238	1,053,619	2,128,311	3,383,792	3,739,618	4,477,362	4,768,480
1.2.2 Development Costs	0	(121,250)	(2,148,780)	(1,823,370)	(539,404)	(125,158)	(145,874)	0	0	(
1.2.3 Ongoing Costs	0	0	0	(313,048)	(871,080)	(1,759,582)	(2,909,289)	(3,430,295)	(3,958,123)	(4,374,055
1.2 SPVX06 Financial Contribution	0	(121,250)	(2,148,780)	(1,692,181)	(356,865)	243,571	328,629	309,323	519,238	394,425
2. Central Costs										
2.1 Spain R&D Centre of Excellence										
2.1.1 Premises and Staff	(414,567)	(569,393)	(681,464)	(718,489)	(757,661)	(799,116)	(839,072)	(881,025)	(925,077)	(971,330
2.1.2 Consumables and Other Costs	(60,215)	(66,237)	(72,860)	(80,146)	(88,161)	(96,977)	(101,826)	(106,917)	(112,263)	(117,876)
2.1 Spain R&D Centre of Excellence Total Costs	(474,782)	(635,629)	(754,324)	(798,635)	(845,822)	(896,093)	(940,898)	(987,942)	(1,037,340)	(1,089,207)
2.2 UK Team										
2.2.1 Premises and Staff	(1,562,688)	(2,041,735)	(2,258,933)	(2,485,713)	(2,614,399)	(2,754,779)	(2,889,086)	(3,034,827)	(3,182,966)	(3,343,466)
2.2.2 Central SG&A costs and Other	0	0	(861,881)	(3,284,348)	(3,293,192)	(6,470,014)	(9,856,633)	(12,750,301)	(13,420,515)	(13,449,804
2.2 UK Team Total Costs	(1,562,688)	(2,041,735)	(3,120,814)	(5,770,061)	(5,907,590)	(9,224,792)	(12,745,719)	(15,785,128)	(16,603,481)	(16,793,270)
EBITDA of Core Financials (SPVX02 and SPVX06)	(3,248,533)	(4,090,899)	(11,204,511)	1,564,938	7,853,321	14,089,223	19,600,421	25,093,983	27,490,352	27,729,936
Cumulative Cash Position Core Financials	(3,248,533)	(7,339,432)	(11,204,511)	(16,979,005)	(9,125,684)	4,963,539	24,563,960	49,657,943	77,148,296	104,878,231
Autoriative Cash Position Core Findicials	(3,240,333)	(7,555,452)	(10,343,543)	(10,979,003)	(5,125,004)	4,505,559	24,303,300	45,057,543	//,140,290	104,070,231

All figures in USD

Appendix: Key Financial Assumptions

Financials shown are projections and are based on the following assumptions:

SPVX02 (Td)

- Price per dose assumed to be between \$11.98 to \$19.11 USD depending on region
- Peak market share between 20%-30% depending on region
- Rest of World (RoW) revenue forecast only incorporated eight high-income countries (HIC) and does not incorporate any middle-income or low-income countries

SPVX06 (TT)

- Price per dose assumed to be between \$5.28 to \$11.92 USD depending on region
- Peak market share around 15% depending on region
- RoW forecast only incorporates eight HIC

Extended Financials Including SPVX07 (Tdap), SPVX08 (Hep B) and mRNA

• Figures presented are Illustrative and dependent on ability to close partnership deals

Data Sources

(1) <u>Statista</u> (2) WHO MI4A Public Database, 2022 (3) <u>Statista</u> (3) <u>Financial Times, 2021</u>
(4) WHO, 2019 (5) Logistics Insider (6) Allied Market Research (7) IQVIA, 2023



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As with all investments, your capital is at risk. The value of your investment can go down as well as up, and you may get back less than you invest. The information contained in this deck should not be regarded as financial advice, and you are encouraged to seek professional advice before any investment is committed

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