EXHIBIT 11

Summary of United States patents issued to Theriva Biologics, Inc. (and its former names and subsidiary) and of Theriva's press releases announcing them

Nejmeh v. Theriva Biologics, Inc., No. 3:26-cv-00705-ART-CSD (D. Nev.). Cited in the First Amended Verified Complaint, paragraph(s) 39.

Prepared by Plaintiff as a summary under Federal Rule of Evidence 1006. Sources, all public:
(1) United States patents granted to the assignees Theriva Biologics, Inc., Synthetic Biologics, Inc. (including the misspelling "Synthetic Biologies"), Sheffield Pharmaceuticals, Inc. and VCN Biosciences, S.L., as listed in the Google Patents database of granted U.S. patents. Patents licensed to Theriva by others are not included.
(2) All 362 press releases posted on Theriva's website, therivabio.com, from February 16, 2012 to September 30, 2026, and the press releases Theriva filed with the SEC as exhibits to Forms 8-K.
A patent is counted as announced if a press release names its number, or if a press release with "patent" in its title was issued within 60 days of the patent's grant, even if that release does not name the number.

Totals by program

Program	U.S. patents	Announced	Not announced
C. difficile / microbiome (SYN-004 family)	41	7	34
SYN-020 (intestinal alkaline phosphatase)	10	0	10
SYN-005	3	1	2
SYN-010	2	1	1
Inhaler (Sheffield)	2	0	2
VCN-01	1	0	1
All programs, patents granted after May 27, 2020	**31**	**0**	**31**

Every patent

Granted	U.S. Patent No.	Title	Program	Press release
2002-04-09	6,367,471	Internal vortex mechanism for inhaler device	Inhaler (Sheffield)	None found
2003-03-04	6,527,151	Aerosol air flow control system and method	Inhaler (Sheffield)	None found
2014-11-25	8,894,994	Modified beta-lactamases and methods and uses related thereto	C. difficile / microbiome (SYN-004 family)	Patent release within 60 days: 2014-10-22
2015-05-19	9,034,602	Modified beta-lactamases and methods and uses related thereto	C. difficile / microbiome (SYN-004 family)	None found
2016-03-22	9,290,754	Beta-lactamases with improved properties for therapy	C. difficile / microbiome (SYN-004 family)	Patent release within 60 days: 2016-03-01
2016-04-05	9,301,995	Modified beta-lactamases and methods and uses related thereto	C. difficile / microbiome (SYN-004 family)	Patent release within 60 days: 2016-03-01
2016-04-05	9,301,996	Modified beta-lactamases and methods and uses related thereto	C. difficile / microbiome (SYN-004 family)	Patent release within 60 days: 2016-03-01
2016-06-28	9,376,673	Beta-lactamases with improved properties for therapy	C. difficile / microbiome (SYN-004 family)	Yes, names the number: 2016-07-12
2016-08-02	9,404,103	Beta-lactamases with improved properties for therapy	C. difficile / microbiome (SYN-004 family)	Patent release within 60 days: 2016-07-12
2016-10-11	9,464,280	Beta-lactamases with improved properties for therapy	C. difficile / microbiome (SYN-004 family)	None found
2016-12-06	9,512,204	Humanized pertussis antibodies and uses thereof	SYN-005	Yes, names the number: 2016-12-13

2017-03-07	9,587,234	Modified beta-lactamases and methods and uses related thereto	C. difficile / microbiome (SYN-004 family)	None found
2017-07-04	9,695,409	Beta-lactamases with improved properties for therapy	C. difficile / microbiome (SYN-004 family)	Patent release within 60 days: 2017-06-27
2017-08-29	9,744,221	Method and compositions for inhibiting or preventing adverse effects of oral ...	C. difficile / microbiome (SYN-004 family)	None found
2017-09-19	9,765,320	Modified beta-lactamases and methods and uses related thereto	C. difficile / microbiome (SYN-004 family)	None found
2017-10-10	9,783,797	Beta-lactamases with improved properties for therapy	C. difficile / microbiome (SYN-004 family)	None found
2018-05-01	9,956,292	Anti-methanogenic compositions and uses thereof	SYN-010	Yes, names the number: 2018-05-08
2018-07-03	10,011,824	Beta-lactamases with improved properties for therapy	C. difficile / microbiome (SYN-004 family)	None found
2018-07-31	10,035,846	Humanized pertussis antibodies and uses thereof	SYN-005	None found
2018-08-07	10,041,056	Modified beta-lactamases and methods and uses related thereto	C. difficile / microbiome (SYN-004 family)	None found
2018-08-14	10,046,035	Methods and compositions for inhibiting or preventing adverse effects of oral ...	C. difficile / microbiome (SYN-004 family)	None found
2018-10-02	10,087,433	Beta-lactamases with improved properties for therapy	C. difficile / microbiome (SYN-004 family)	None found
2018-10-23	10,105,322	Beta-lactamase formulations and uses thereof	C. difficile / microbiome (SYN-004 family)	None found
2019-04-09	10,253,306	Modified beta-lactamases and methods and uses related thereto	C. difficile / microbiome (SYN-004 family)	None found
2019-07-02	10,336,995	Beta-lactamases with improved properties for therapy	C. difficile / microbiome (SYN-004 family)	None found
2020-01-07	10,526,400	Humanized pertussis antibodies and used thereof	SYN-005	None found
2020-02-04	10,548,955	Carbapenemases for use with antibiotics for the protection of the intestinal ...	C. difficile / microbiome (SYN-004 family)	None found
2020-03-10	10,584,326	Beta-lactamases with improved properties for therapy	C. difficile / microbiome (SYN-004 family)	None found
2020-07-14	10,709,773	Safe and effective beta-lactamase dosing for microbiome protection	C. difficile / microbiome (SYN-004 family)	None found

2020-08-11	10,736,871	Anti-methanogenic lovastatin analogs or derivatives and uses thereof	SYN-010	None found
2020-09-08	10,767,171	Beta-lactamases with improved properties for therapy	C. difficile / microbiome (SYN-004 family)	None found
2020-10-06	10,792,346	Method and compositions for inhibiting or preventing adverse effects of oral ...	C. difficile / microbiome (SYN-004 family)	None found
2020-11-10	10,828,260	Beta-lactamase formulations and uses thereof	C. difficile / microbiome (SYN-004 family)	None found
2021-04-27	10,987,410	Alkaline phosphatase formulations	SYN-020 (intestinal alkaline phosphatase)	None found
2021-05-11	11,000,560	Oncolytic adenoviruses ... immunodominant epitopes	VCN-01	None found
2021-06-15	11,034,966	E. coli-based production of beta-lactamase	C. difficile / microbiome (SYN-004 family)	None found
2021-09-21	11,123,413	Carbapenemases for use with antibiotics for the protection of the intestinal ...	C. difficile / microbiome (SYN-004 family)	None found
2022-01-04	11,214,787	Modified beta-lactamases and methods and uses related thereto	C. difficile / microbiome (SYN-004 family)	None found
2022-02-01	11,236,319	Beta-lactamases with improved properties for therapy	C. difficile / microbiome (SYN-004 family)	None found
2022-02-22	11,253,577	Safe and effective beta-lactamase dosing for microbiome protection	C. difficile / microbiome (SYN-004 family)	None found
2022-05-24	11,338,020	Alkaline phosphatase agents for treatment of neurodevelopmental disorders	SYN-020 (intestinal alkaline phosphatase)	None found
2022-12-06	11,517,614	Microbiome protection from oral antibiotics	C. difficile / microbiome (SYN-004 family)	None found
2023-01-03	11,542,510	E. coli-based production of beta-lactamase	C. difficile / microbiome (SYN-004 family)	None found
2023-03-07	11,596,674	Method and compositions for inhibiting or preventing adverse effects of oral ...	C. difficile / microbiome (SYN-004 family)	None found
2023-03-21	11,608,494	Beta-lactamases with improved properties for therapy	C. difficile / microbiome (SYN-004 family)	None found
2023-05-02	11,638,699	Intestinal alkaline phosphatase formulations	SYN-020 (intestinal alkaline phosphatase)	None found
2023-05-23	11,654,184	Alkaline phosphatase agents for treatment of radiation disorders	SYN-020 (intestinal alkaline phosphatase)	None found

2024-01-16	11,872,268	Safe and effective beta-lactamase dosing for microbiome protection	C. difficile / microbiome (SYN-004 family)	None found
2024-01-30	11,883,474	Microbiome protection from oral antibiotics	C. difficile / microbiome (SYN-004 family)	None found
2024-04-02	11,944,669	Method and compositions for inhibiting or preventing adverse effects of oral ...	C. difficile / microbiome (SYN-004 family)	None found
2024-05-14	11,981,899	E. coli-based production of beta-lactamase	C. difficile / microbiome (SYN-004 family)	None found
2024-07-30	12,048,735	Alkaline phosphatase formulations	SYN-020 (intestinal alkaline phosphatase)	None found
2024-12-31	12,178,917	Beta-lactamase formulations and uses thereof	C. difficile / microbiome (SYN-004 family)	None found
2025-04-15	12,274,740	Microbiome protection from oral antibiotics	C. difficile / microbiome (SYN-004 family)	None found
2025-06-03	12,318,434	Alkaline phosphate-based oncology treatments	SYN-020 (intestinal alkaline phosphatase)	None found
2025-11-18	12,472,147	Intestinal alkaline phosphatase formulations	SYN-020 (intestinal alkaline phosphatase)	None found
2025-12-30	12,508,304	Alkaline phosphatase formulations	SYN-020 (intestinal alkaline phosphatase)	None found
2026-06-09	12,648,987	Alkaline phosphatase agents for treatment of radiation disorders	SYN-020 (intestinal alkaline phosphatase)	None found
2026-07-28	12,691,077	Alkaline phosphatase formulations and uses thereof	SYN-020 (intestinal alkaline phosphatase)	None found