

# Ensysce Biosciences Reports Fourth Quarter and Full Year 2024 Financial Results

# Secures Strategic Partnership for the Development and Commercial Launch of PF614 and PF614-MPAR

#### Groundbreaking Trial on PF614-MPAR Generates Positive Interim Results

**SAN DIEGO, CALIFORNIA / <u>ACCESS Newswire</u> / March 10, 2025** /Ensysce Biosciences, Inc. (NASDAQ:ENSC) ("Ensysce" or the "Company"), a clinical-stage pharmaceutical company developing innovative solutions for severe pain relief while reducing the potential for opioid abuse and overdose, today reported financial and operational results for the fourth quarter and full year ended December 31, 2024.

Dr. Lynn Kirkpatrick, Chief Executive Officer of Ensysce, commented, "Our team continued to make significant strides in the fourth quarter to deliver what we believe are the 'Next Generation' opioid analgesics with both abuse and overdose protection. We received feedback from the FDA on our PF614 phase 3 study design and are now taking steps to prepare for the expected start of enrollment of this clinical study in the second quarter of 2025. We are finalizing the selection of clinical sites and an experienced team to execute our PF614 phase 3 trial to remain on track to submit our PF614 New Drug Application in 2026."

Dr. Kirkpatrick continued, "Additionally, we are pleased with the continued positive results from our PF614-MPAR-102 study, showing PF614-MPAR provides overdose protection across our planned dosage range, when a greater-than-prescribed dose is consumed at one time. This second study of our overdose protection MPAR technology is continuing to evaluate subjects at higher dose limits in part 1 of the three-part study. The clinical trial is supported by our multi-year award from the National Institute on Drug Abuse and will continue to enroll subjects for parts 2 and 3 over the next year. Furthermore, in January, we entered into a highly valuable strategic partnership for the manufacture and commercial launch of both our PF614 and PF614-MPAR drug products.

I'm pleased that Ensysce concluded 2024 and entered 2025 in a very favorable position. We are encouraged by the FDA's recent focus on commercialization of new drug products that address and treat pain. With the "clever chemistry" of our lead products PF614 and PF614-MPAR, Ensysce is planning to disrupt the analgesic market, offering novel protection against overdose and abuse with opioid-grade efficacy."

## TAAP<sup>TM</sup> (Opioid Abuse Deterrent Program) Update

Our lead product, PF614, is a Trypsin-Activated Abuse Protection (TAAP<sup>TM</sup>) extended-release oxycodone and a potential "next generation" analgesic to treat severe pain. PF614's

TAAP<sup>TM</sup> chemical modification of oxycodone makes it inactive until it is swallowed and exposed to the body's own trypsin in the small intestine to activate or "switch on" to release oxycodone. The Company's TAAP<sup>TM</sup> technology is designed to control release, be highly resistant to tampering, and reduce abuse, with a goal of providing what the company believes is a safer effective opioid product for those suffering with severe pain who require opioid-strength analgesia.

During the fourth quarter, the Company announced its strategic partnership with a leading specialty drug manufacturer to push manufacture of PF614 to commercial launch and for the development of a PF614-MPAR final drug product. This collaboration establishes readiness and a shared commitment to achieving swift regulatory approval with efficient development of the initial commercial supply of the Company's highly innovative drug products, PF614 and PF614-MPAR.

## MPAR® (Opioid Abuse Deterrent and Overdose Protection Program) Update

PF614-MPAR, the Company's second product to treat severe pain with the added benefit of oral overdose protection, is a combination product of the TAAP<sup>TM</sup> prodrug PF614 with a trypsin inhibitor. MPAR® (Multi-Pill Abuse Resistance) reduces or "switches off" the release of the opioid only in an overdose situation, by blocking the first step of the trypsin activation process, providing an additional layer of protection to Ensysce's TAAP<sup>TM</sup> medications. Data from the clinical trial, PF614-MPAR-101, demonstrating that the MPAR® technology worked as designed to provide overdose protection, led to the FDA's Breakthrough Therapy designation in January 2024.

During the fourth quarter, the Company initiated a second clinical trial with PF614-MPAR, PF614-MPAR-102, to evaluate higher dosages of PF614-MPAR. In January, the Company announced interim data from PF614-MPAR-102 that showed a 100 mg dosage form of PF614-MPAR provided overdose protection when a greater-than-prescribed dose is consumed at one time. The study continues to examine the protection provided when 5 times the 100 mg dose unit is consumed, studying potential food effects, and conducting a multiple ascending dose study with the final PF614-MPAR combination. Thus far, adverse events have been limited, we believe verifying the favorable safety profile of PF614 and PF614-MPAR as a novel class of opioids to treat severe pain.

## Opioid Use Disorder (OUD) Program Update

Using its TAAP technology, the Company created a pipeline of methadone analogues to treat OUD, and in 2024 selected its lead OUD drug candidate PF9001. The intent of the program is to reduce both the abuse profile and the cardiovascular side effects associated with traditional methadone OUD treatments, and to make OUD treatment more accessible to those who need it. The program, supported by a multi-year Helping to End Addiction Long-Term (HEAL) award, is continuing non-clinical studies to support moving into IND enabling work in the coming year.

## Q4 & Full Year 2024 Financial Results

**Cash** - Cash and cash equivalents were \$3.5 million as of December 31, 2024, compared to \$4.2 million as of September 30, 2024 and \$1.1 million as of December 31, 2023. For the year, cash from financing activities of \$9.9 million exceeded cash used in operations of \$7.5

million.

**Federal Grants -** Funding under federal grants totaled \$1.3 million for the fourth quarter of 2024 compared to \$0.5 million in the comparable year ago quarter. For the full year of 2024, funding from federal grants was \$5.2 million compared to \$2.2 million for the full year of 2023. The increased funding in 2024 is largely attributable to a \$14 million multi-year award from the National Institute on Drug Abuse (NIDA) to support the MPAR clinical program. The remaining cash funding under the MPAR grant is \$1.6 million for the period through May 31, 2025, with an additional \$9.0 million of funding available for the following two years.

**Research & Development Expenses -** R&D expenses were \$3.8 million for the fourth quarter of 2024 compared to \$2.2 million for the same period in 2023. The increase was due to heightened activity for the MPAR and OUD programs in 2024. For the full year, R&D expenses were \$7.2 million compared to \$7.6 million for 2023. The full year decrease was primarily the result of reduced costs related to clinical and pre-clinical programs for PF614 as activity in 2024 transitioned to preparation for a Phase 3 trial.

**General & Administrative Expenses -** G&A expenses were \$1.1 million in the fourth quarter of 2024, compared to \$1.4 million for the fourth quarter of 2023. For 2024, G&A expenses were \$4.7 million, representing a decrease of \$0.6 million compared to \$5.4 million for 2023. The decrease was primarily a result of reduced stock-based compensation expenses in 2024. We expect future general and administrative expenses to approximate current levels.

**Other Income (Expense)** - Total other income (expense) was income of \$12,054 for the fourth quarter of 2024 compared to expense of \$0.3 million in the same period of 2023. For 2024, total other income (expense), net was an expense of \$1.3 million compared to income of \$0.1 million for 2023. The changes in other expenses were primarily the result of interest expense associated with the amortization of the original issue discount and the debt issuance costs for the 2023 Notes and represented a net change in other income and expense of \$1.3 million compared to 2023.

**Net Income (Loss)** - Net loss attributable to common stockholders for the fourth quarter of 2024 was \$3.6 million compared to a net loss of \$3.5 million for the fourth quarter of 2023. For 2024, net loss was \$8.0 million compared to \$10.6 million for 2023. As a clinical stage biotech company, our continued research and development efforts toward regulatory approvals for our product candidates are expected to result in losses for the foreseeable future.

## About Ensysce Biosciences

Ensysce Biosciences is a clinical-stage company with a goal of disrupting the analgesic landscape by introducing a new class of highly novel opioids for the treatment of severe pain. Leveraging its Trypsin-Activated Abuse Protection (TAAP<sup>™</sup>) and Multi-Pill Abuse Resistance (MPAR®) platforms, the Company is developing unique, tamper-proof treatment options for pain that minimize the risk of both drug abuse and overdose. Ensysce's products are anticipated to provide safer options to treat patients suffering from severe pain and assist in preventing deaths caused by medication abuse. For more information, please visit www.ensysce.com.

## Definitions

TAAP™: trypsin activated abuse protection - designed to protect against prescription drug abuse.

MPAR®: multi-pill abuse resistance - designed to protect against abuse and accidental overdose.

#### **Forward-Looking Statements**

Statements contained in this press release that are not purely historical may be deemed to be forward-looking statements for the purposes of the safe harbor provisions under The Private Securities Litigation Reform Act of 1995 and other federal securities laws. Without limiting the foregoing, the use of words such as "may," "intends," "can," "might," "will," "expect," "plan," "possible," "believe" and other similar expressions are intended to identify forward-looking statements. The product candidates discussed are in clinic and not approved and there can be no assurance that the clinical programs will be successful in demonstrating safety and/or efficacy, that Ensysce will not encounter problems or delays in clinical development, or that any product candidate will ever receive regulatory approval or be successfully commercialized. All forward-looking statements are based on estimates and assumptions by Ensysce's management that, although Ensysce believes to be reasonable, are inherently uncertain. All forward-looking statements are subject to risks and uncertainties that may cause actual results to differ materially from those that Ensysce expected. In addition, Ensysce's business is subject to additional risks and uncertainties, including among others, possible NASDAQ delisting, the initiation and conduct of preclinical studies and clinical trials: the timing and availability of data from preclinical studies and clinical trials: expectations for regulatory submissions and approvals; potential safety concerns related to, or efficacy of, Ensysce's product candidates; the availability or commercial potential of product candidates; the ability of Ensysce to fund its continued operations, including its planned clinical trials; the dilutive effect of stock issuances from our fundraising; and Ensysce's and its partners' ability to perform under their license, collaboration and manufacturing arrangements. These statements are also subject to a number of material risks and uncertainties that are described in Ensysce's most recent annual report on Form 10-K and current reports on Form 8-K, which are available, free of charge, at the SEC's website at www.sec.gov. Any forward-looking statement speaks only as of the date on which it was made. Ensysce undertakes no obligation to publicly update or revise any forwardlooking statement, whether as a result of new information, future events or otherwise, except as required under applicable law.

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# Ensysce Biosciences, Inc. Condensed Consolidated Statements of Operations

	2021	2020	2021	2020	
	Three Months Ended December 31,		Year Ended December 31,		
	2024	2023	2024	2023	
Federal grants Operating expenses:	\$ 1,303,659	\$ 515,032	\$ 5,210,031	\$ 2,230,520	
Research and development	3,802,630	2,232,760	7,219,437	7,587,473	
General and administrative	1,077,505	1,437,957	4,720,728	5,361,234	
Total operating expenses	4,880,135	3,670,717	11,940,165	12,948,707	
Loss from operations	(3,576,476)	(3,155,685)	(6,730,134)	(10,718,187)	
Total other income (expense), net	12,054	(348,676 )	(1,256,875 )	91,912	
Net loss	\$ (3,564,422)	\$ (3,504,361 )	\$ (7,987,009 )	\$ (10,626,275 )	
Adjustments to net loss		66	(216)	264	
Net loss attributable to common stockholders	\$ (3,564,422 )	\$ (3,504,295 )	\$ (7,987,225 <sub>)</sub>	\$ (10,626,011 <sub>)</sub>	
Net loss per share attributable to common stockholders, basic and diluted	\$ (2.90)	\$ (16.94 ) 	\$ (11.45 ) 	\$    (70.40 )	

## Ensysce Biosciences, Inc. Condensed Consolidated Statements of Cash Flows

	2021	2020		
	Year Ended I	Year Ended December 31,		
	2024	2023		
Net cash used in operating activities	\$ (7,502,700 )	\$ (10,779,982 )		
Net cash provided by financing activities	9,881,173	8,755,884		
Change in cash and cash equivalents	2,378,473	(2,024,098)		
Cash and cash equivalents at beginning of period	1,123,604	3,147,702		
Cash and cash equivalents at end of period	\$ 3,502,077	\$ 1,123,604		

# Ensysce Biosciences, Inc. Condensed Consolidated Balance Sheets

	De	December 31,		December 31,	
		2024		2023	
Assets					
Current assets:					
Cash and cash equivalents	\$	3,502,077	\$	1,123,604	
Prepaid expenses and other current assets		1,842,605		1,165,264	
Total current assets		5,344,682		2,288,868	
Other assets		252,550		419,217	
Total assets	\$	5,597,232	\$	2,708,085	
Liabilities and stockholders' deficit					
Current liabilities:					
Accounts payable	\$	1,357,079	\$	1,936,007	
Accrued expenses and other liabilities		548,458		542,260	
Notes payable and accrued interest		301,660		854,697	
Total current liabilities		2,207,197		3,332,964	
Long-term liabilities		10,096		26,388	
Total liabilities		2,217,293		3,359,352	
Stockholders' deficit		3,379,939		(651,267)	
Total liabilities and stockholders' equity	\$	5,597,232	\$	2,708,085	

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