

The option classes listed below will begin trading on the MIAX Emerald Options Exchange at the start of trading on **Wednesday, July 20, 2022**. All option classes on MIAX Emerald have an allocation style of Pro-Rata and billing style of Maker-Taker.

Security Symbol	Security Name	Option Class	Penny Pilot	Exchange for Opening	Closing	PLMM	Cloud
					Time		
AADI	AADI BIOSCIENCE, INC.	AADI	No	NASDAQ	4:00	Citadel Securities, LLC	1
AGRI	AgriFORCE Growing Systems Ltd.	AGRI	No	NASDAQ	4:00	Susquehanna Securities	1
AKA	A.K.A. BRANDS HOLDING CORP.	AKA	No	NYSE	4:00	Susquehanna Securities	1
APYX	Apyx Medical Corporation	APYX	No	NASDAQ	4:00	Citadel Securities, LLC	1
ARBK	ARGO BLOCKCHAIN PLC	ARBK	No	NASDAQ	4:00	Susquehanna Securities	1
ASTL	ALGOMA STEEL GROUP INC.	ASTL	No	NASDAQ	4:00	Citadel Securities, LLC	1
AUY	YAMANA GOLD, INC	AUY	Yes	NYSE	4:00	Wolverine Trading, LLC	1
BASE	COUCHBASE, INC.	BASE	No	NASDAQ	4:00	Wolverine Trading, LLC	2
BIZD	VanEck BDC Income ETF	BIZD	No	NYSE Arca	4:00	Wolverine Trading, LLC	2
BLCO	BAUSCH & LOMB CORP	BLCO	No	NYSE	4:00	Wolverine Trading, LLC	2
BORR	BORR DRILLING LIMITED	BORR	No	NYSE	4:00	Wolverine Trading, LLC	2
BOWL	BOWLERO CORP.	BOWL	No	NYSE	4:00	Morgan Stanley	2
BRZE	BRAZE, INC.	BRZE	No	NASDAQ	4:00	Susquehanna Securities	2
BUR	BURFORD CAP LTD	BUR	No	NYSE	4:00	Citadel Securities, LLC	2
CEG	CONSTELLATION ENERGY CORPORATION	CEG	No	NASDAQ	4:00	Wolverine Trading, LLC	2
COGT	COGENT BIOSCIENCES, INC.	COGT	No	NASDAQ	4:00	Susquehanna Securities	2
CRNX	CRINETICS PHARMACEUTICALS INC	CRNX	No	NASDAQ	4:00	Susquehanna Securities	2
CVET	COVERTUS INC	CVET	No	NASDAQ	4:00	Susquehanna Securities	2
DAWN	DAY ONE BIOPHARMACEUTICALS, INC.	DAWN	No	NASDAQ	4:00	Citadel Securities, LLC	3
DBVT	DBV Technologies S.A.	DBVT	No	NASDAQ	4:00	Citadel Securities, LLC	3

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DSGN	DESIGN THERAPEUTICS, INC.	DSGN	No	NASDAQ	4:00	Susquehanna Securities	3
DTC	SOLO BRANDS, INC.	DTC	No	NYSE	4:00	Citadel Securities, LLC	3
EE	EXCELERATE ENERGY, INC.	EE	No	NYSE	4:00	Citadel Securities, LLC	3
EEMV	iShares MSCI Emerging Markets Min Vol Factor ETF	EEMV	No	BATS	4:00	Wolverine Trading, LLC	3
ENOB	ENOCHIAN BIOSCIENCES INC.	ENOB	No	NASDAQ	4:00	Citadel Securities, LLC	3
FERG	FERGUSON PLC	FERG	No	NYSE	4:00	Susquehanna Securities	3
FSTX	F-STAR THERAPEUTICS, INC.	FSTX	No	NASDAQ	4:00	Susquehanna Securities	3
HMLP	HOEGH LNG PARTNERS LP	HMLP	No	NYSE	4:00	Susquehanna Securities	4
HRMY	HARMONY BIOSCIENCES HOLDINGS IN	HRMY	No	NASDAQ	4:00	Susquehanna Securities	4
KB	KB Financial Group, Inc.	KB	No	NYSE	4:00	Citadel Securities, LLC	5
LOCL	LOCAL BOUNTI CORPORATION	LOCL	No	NYSE	4:00	Citadel Securities, LLC	5
MNDT	Mandiant, Inc.	MNDT	No	NASDAQ	4:00	Susquehanna Securities	6
NU	NU HOLDINGS LTD.	NU	No	NYSE	4:00	Wolverine Trading, LLC	6
OB	OUTBRAIN INC	OB	No	NASDAQ	4:00	Wolverine Trading, LLC	7
PCSB	PCSB Financial Corp	PCSB	No	NASDAQ	4:00	Susquehanna Securities	7
PCVX	VAXCYTE, INC.	PCVX	No	NASDAQ	4:00	Citadel Securities, LLC	7
SEMR	SEMRUSH HOLDINGS, INC.	SEMR	No	NYSE	4:00	Susquehanna Securities	8
SHC	SOTERA HEALTH COMPANY	SHC	No	NASDAQ	4:00	Wolverine Trading, LLC	8
SOUN	SOUNDHOUND AI, INC	SOUN	No	NASDAQ	4:00	Citadel Securities, LLC	8
STON	StoneMor Inc.	STON	No	NYSE	4:00	Susquehanna Securities	8
SVIX	-1X SHORT VIX FUTURES ETF	SVIX	No	BATS	4:15	Susquehanna Securities	8
SWIM	LATHAM GROUP INC	SWIM	No	NASDAQ	4:00	Susquehanna Securities	8
TAIL	CAMBRIA TAIL RISK	TAIL	No	BATS	4:00	Wolverine Trading, LLC	8
TGA	TRANSGLOBE ENERGY CORPORATION	TGA	No	NASDAQ	4:00	Citadel Securities, LLC	8

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TPTX	TURNING POINT THERAPEUTICS, INC.	TPTX	No	NASDAQ	4:00	Susquehanna Securities	8
TSAT	Telesat Corporation	TSAT	No	NASDAQ	4:00	Citadel Securities, LLC	8
TXMD	TherapeuticsMD, Inc.	TXMD	No	NASDAQ	4:00	Susquehanna Securities	8
UVIX	2X LONG VIX FUTURES ETF	UVIX	No	BATS	4:15	Wolverine Trading, LLC	9
VG	Vonage Holdings Corp	VG	No	NASDAQ	4:00	Susquehanna Securities	9
VMBS	VANGUARD MORTGAGE-BACKED SECURITIES ETF	VMBS	No	NASDAQ	4:00	Citadel Securities, LLC	9
XYLD	GLOBAL X S&P 500 COVERED CALL ETF	XYLD	No	NYSE Arca	4:00	Wolverine Trading, LLC	10

Please contact MIAX Options Listings with any questions.

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