

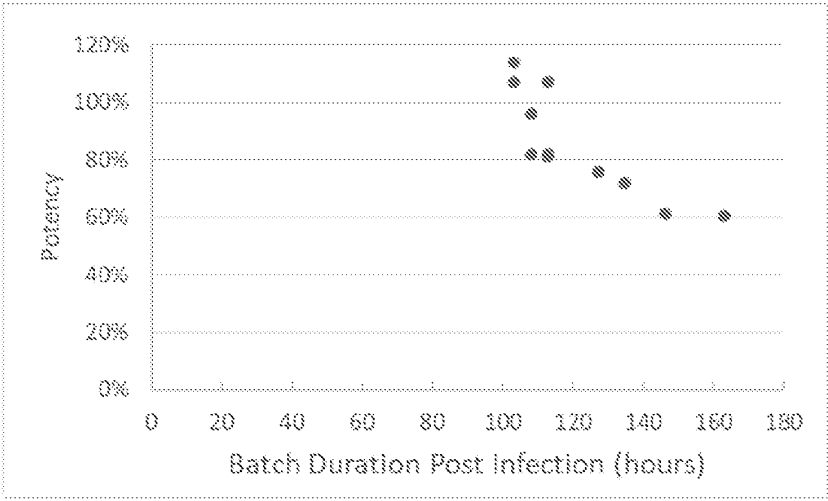


FIG. 1

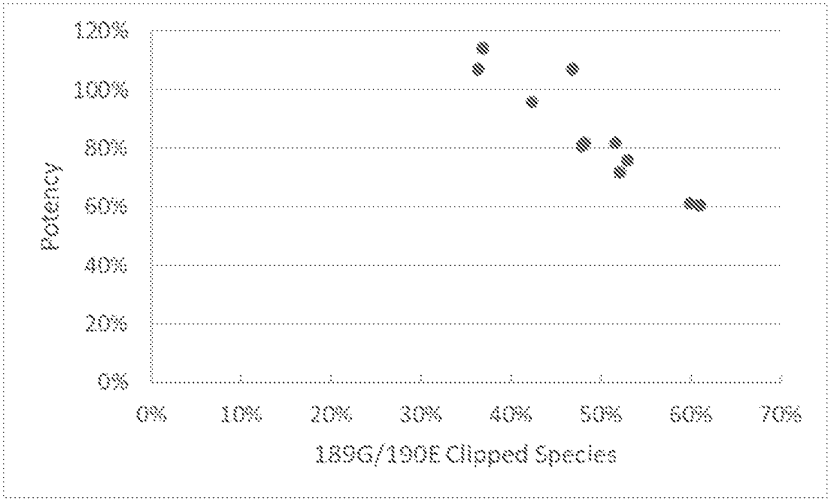


FIG. 2

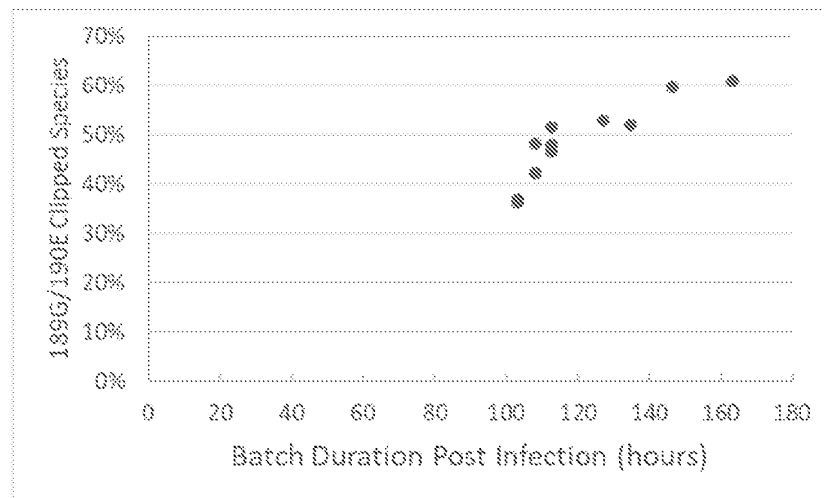


FIG. 3

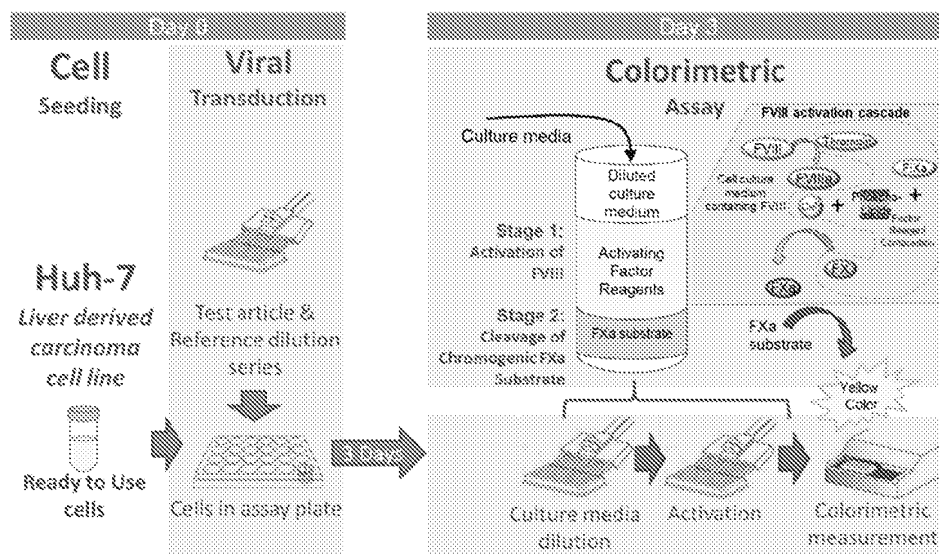


FIG. 4

A.

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AAV8      MAADGYLPDMLLEDNLSEGIREWMALKPGAPKPKANQQKQDDGRGLVLPQYKYLGPFGSLD 68
AAV1      MAADGYLPDMLLEDNLSEGIREWMALKPGAPKPKANQQKQDDGRGLVLPQYKYLGPFGSLD 68
AAV6      MAADGYLPDMLLEDNLSEGIREWMALKPGAPKPKANQQKQDDGRGLVLPQYKYLGPFGSLD 68
AAV3A     MAADGYLPDMLLEDNLSEGIREWMALKPGVPPKPKANQQKQDDNRGLVLPQYKYLGPFGSLD 68
AAV3B     MAADGYLPDMLLEDNLSEGIREWMALKPGVPPKPKANQQKQDDNRGLVLPQYKYLGPFGSLD 68
          ***** ,*,*****,*; *****

AAV8      KGEFVNIAADAAAAL EHKAYDQQLKAGDNIPYLRYNHADAEEFQERLQEDTSFGGNIGRAVFQ 120
AAV1      KGEFVNIAADAAAAL EHKAYDQQLKAGDNIPYLRYNHADAEEFQERLQEDTSFGGNIGRAVFQ 120
AAV6      KGEFVNIAADAAAAL EHKAYDQQLKAGDNIPYLRYNHADAEEFQERLQEDTSFGGNIGRAVFQ 120
AAV3A     KGEFVNIAADAAAAL EHKAYDQQLKAGDNIPYLRYNHADAEEFQERLQEDTSFGGNIGRAVFQ 120
AAV3B     KGEFVNIAADAAAAL EHKAYDQQLKAGDNIPYLRYNHADAEEFQERLQEDTSFGGNIGRAVFQ 120
          ***** ,*****,*; *****

AAV8      AKKRVLEPLGLVEEGAKTAPGKKRPVEPSQPSFDSSTGIGKKGQPAKKRLNFGQTGDS 180
AAV1      AKKRVLEPLGLVEEGAKTAPGKKRPVEQSPQ-EPDSSSGIGKTGQPAKKRLNFGQTGDS 179
AAV6      AKKRVLEPLGLVEEGAKTAPGKKRPVEQSPQ-EPDSSSGIGKTGQPAKKRLNFGQTGDS 179
AAV3A     AKKRVLEPLGLVEEGAKTAPGKKRPVEQSPQ-EPDSSSGIGKTGQPAKKRLNFGQTGDS 179
AAV3B     AKKRVLEPLGLVEEGAKTAPGKKRPVEQSPQ-EPDSSSGIGKTGQPAKKRLNFGQTGDS 179
          ***** ,*****,*; *****

AAV8      ESVPDPQPPGEPPAAPSQVGPNTMAAGGGAPHADNIEGADGVGNSSGMMHCDSTHLGDRV 240
AAV1      ESVPDPQPPGEPPATPAAVGPTTMAAGGGAPHADNIEGADGVGNSSGMMHCDSTHLGDRV 239
AAV6      ESVPDPQPPGEPPATPAAVGPTTMAAGGGAPHADNIEGADGVGNSSGMMHCDSTHLGDRV 239
AAV3A     ESVPDPQPPGEPPAAPTSLGNTMAAGGGAPHADNIEGADGVGNSSGMMHCDSTHLGDRV 239
AAV3B     ESVPDPQPPGEPPAAPTSLGNTMAAGGGAPHADNIEGADGVGNSSGMMHCDSTHLGDRV 239
          ***** ,*,*,*,*,***** ,*,*****

AAV8      ITTSTRTNALPTYNNHLYKQISSAS--TGASNDNHYFGYSTPWGYFDNRFHCHFSPRDQ 298
AAV1      ITTSTRTNALPTYNNHLYKQISSAS--TGASNDNHYFGYSTPWGYFDNRFHCHFSPRDQ 298
AAV6      ITTSTRTNALPTYNNHLYKQISSAS--TGASNDNHYFGYSTPWGYFDNRFHCHFSPRDQ 298
AAV3A     ITTSTRTNALPTYNNHLYKQISSQ--SGASNDNHYFGYSTPWGYFDNRFHCHFSPRDQ 297
AAV3B     ITTSTRTNALPTYNNHLYKQISSQ--SGASNDNHYFGYSTPWGYFDNRFHCHFSPRDQ 297
          ***** ,***** ,*****

AAV8      RLINMMMGFRPKRLSFKLFNIQVKEVTQNDGTTTIANHLTSTVQVFTDSEYQLPYVLGSA 360
AAV1      RLINMMMGFRPKRLNFKLFNIQVKEVTQNDGTTTIANHLTSTVQVFTDSEYQLPYVLGSA 358
AAV6      RLINMMMGFRPKRLNFKLFNIQVKEVTQNDGTTTIANHLTSTVQVFTDSEYQLPYVLGSA 358
AAV3A     RLINMMMGFRPKRLSFKLFNIQVKEVTQNDGTTTIANHLTSTVQVFTDSEYQLPYVLGSA 357
AAV3B     RLINMMMGFRPKRLSFKLFNIQVKEVTQNDGTTTIANHLTSTVQVFTDSEYQLPYVLGSA 357
          ***** ,*,***** ,*,*,*,***** ,*,*****

AAV8      HQGCLPPFPADVFNIQVGYLTLNMGSAVGRSSFYCLEYFPSQMLRTGMNIFQFTYTFED 420
AAV1      HQGCLPPFPADVFNIQVGYLTLNMGSAVGRSSFYCLEYFPSQMLRTGMNIFQFTYTFED 418
AAV6      HQGCLPPFPADVFNIQVGYLTLNMGSAVGRSSFYCLEYFPSQMLRTGMNIFQFTYTFED 418
AAV3A     HQGCLPPFPADVFNIQVGYLTLNMGSAVGRSSFYCLEYFPSQMLRTGMNIFQFTYTFED 417
AAV3B     HQGCLPPFPADVFNIQVGYLTLNMGSAVGRSSFYCLEYFPSQMLRTGMNIFQFTYTFED 417
          ***** ,***** ,*****

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FIG. 5

B.

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AAV8      VPFHSSYAHSSQS.LDR.LMPLIDQYLYYLNRQTQT -GGTANTQTLGF SQGSPNTMANQAKN 477
AAV1      VPFHSSYAHSSQS.LDR.LMPLIDQYLYYLNRQTQNS -GSAGNKOLLFSRGSFAGMSVQPKN 477
AAV6      VPFHSSYAHSSQS.LDR.LMPLIDQYLYYLNRQTQNS -GSAGNKOLLFSRGSFAGMSVQPKN 477
AAV3A     VPFHSSYAHSSQS.LDR.LMPLIDQYLYYLNRQTQTSGTTHQSRLLFSQAGPQSMISLQARN 477
AAV3B     VPFHSSYAHSSQS.LDR.LMPLIDQYLYYLNRQTGTSGTTHQSRLLFSQAGPQSMISLQARN 477
*****,,** *::, * **,* * *
AAV8      WLPGPCYRQQRVSTTTGQNNHNSNF AVTAGTKYHLNGRNSLANPGIAMA THKDOEERFFPS 537
AAV1      WLPGPCYRQQRVSKTKTDNNHNSNF TWTGASKYHLNGRESIINPGTAMASHKDOEDKFFPM 537
AAV6      WLPGPCYRQQRVSKTKTDNNHNSNF TWTGASKYHLNGRESIINPGTAMASHKDOEDKFFPM 537
AAV3A     WLPGPCYRQQRSLSKTANNNHNSNF PWTAA SKYHLNGRSLVNP GPAMASHKDOEDKFFPM 537
AAV3B     WLPGPCYRQQRSLSKTANNNHNSNF PWTAA SKYHLNGRSLVNP GPAMASHKDOEDKFFPM 537
*****,* * * :***** **,,**::*****;* * ** **::*****;:*****
AAV8      NGILIFGKQNAARDNAOYSDVMLTSEEEIKTINPVATEEYGVADNMLQQONTAPQIGTVN 597
AAV1      SGVMI FGKESAGASNTALDNMMITDEEEIKATNPVATERFQTVAVNMQSSSDPATGQDVH 597
AAV6      SGVMI FGKESAGASNTALDNMMITDEEEIKATNPVATERFQTVAVNMLQSSSDPATGQDVH 597
AAV3A     HGHLIFGKEGTTASHAE.LDMMITDEEEIRTINPVATEQYGVTVANMLQSSNTAPTGTGVN 597
AAV3B     HGHLIFGKEGTTASHAE.LDMMITDEEEIRTINPVATEQYGVTVANMLQSSNTAPTGTGVN 597
* {***,,: *}, :*,*,*****,:*****,* ** **,*,* * *
AAV8      SQGALPGMAAQDRDYYVLQGP IIAKIPHTDGHFHPSPLMGGFGLKHPPPQILIKINTPVPAD 657
AAV1      AMGALPGMAAQDRDYYVLQGP IIAKIPHTDGHFHPSPLMGGFGLKHPPPQILIKINTPVPAN 657
AAV6      VMGALPGMAAQDRDYYVLQGP IIAKIPHTDGHFHPSPLMGGFGLKHPPPQILIKINTPVPAN 657
AAV3A     HQGALPGMAAQDRDYYVLQGP IIAKIPHTDGHFHPSPLMGGFGLKHPPPQILIKINTPVPAN 657
AAV3B     DQGALPGMAAQDRDYYVLQGP IIAKIPHTDGHFHPSPLMGGFGLKHPPPQILIKINTPVPAN 657
*****:*****:*****:*****:*****:*****:*****:*****:*****:*****:*****
AAV8      PPTTFPNSKLSNFITQYSTGQVSVEIEWELQKENSKRMMPEIQYTSNYYKSTSVQFAVNT 717
AAV1      PPAEF SATKFPASFITQYSTGQVSVEIEWELQKENSKRMMPEVQYTSNNAKSANNOFTVDN 717
AAV6      PPAEF SATKFPASFITQYSTGQVSVEIEWELQKENSKRMMPEVQYTSNNAKSANNOFTVDN 717
AAV3A     PPTTFSPAKFPASFITQYSTGQVSVEIEWELQKENSKRMMPEIQYTSNYYKSNVNOFTVD 717
AAV3B     PPTTFSPAKFPASFITQYSTGQVSVEIEWELQKENSKRMMPEIQYTSNYYKSNVNOFTVD 717
**,* ,{: *****:*****:***** **,,**::*,:
AAV8      EGVYSEPRPIGTRYLTRNL 738
AAV1      NGLYTEPRPIGTRYLTRPL 738
AAV6      NGLYTEPRPIGTRYLTRPL 738
AAV3A     NGVYSEPRPIGTRYLTRNL 738
AAV3B     NGVYSEPRPIGTRYLTRNL 738
+*+*****+

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FIG. 5 (continued)

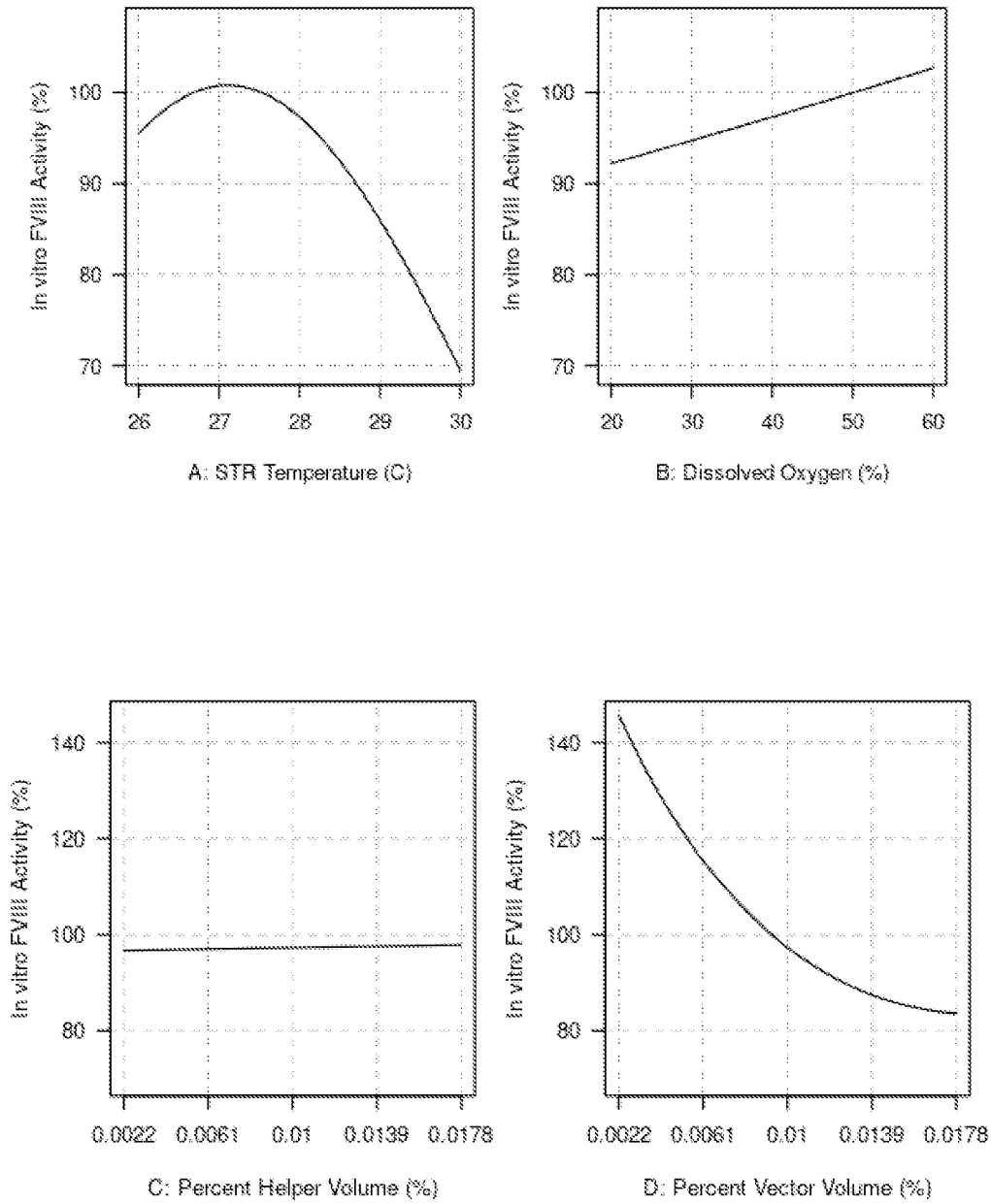
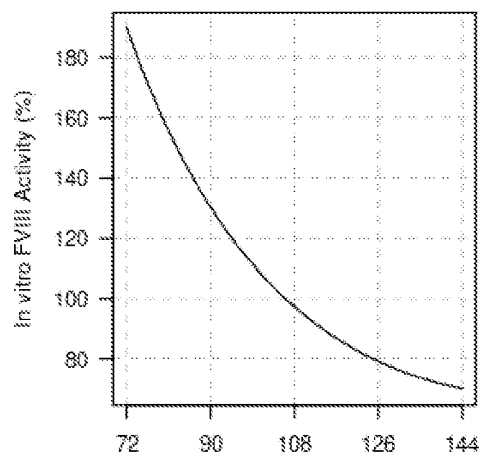


FIG. 6



E. Batch Duration Post Infection (hr)

FIG. 6