Homozygote viability at weaning ESLIM_023_001

Purpose

EMPReSS Standard Operating Procedure	Title: Homozygote viability at weaning	
	Doc. Number: ESLIM_023_001 Rev No.	Date Issued: 15/04/15

Change Record

Revision	Date	Responsible Person	Description of Change
D1.1	29 Apr 15	Hugh Moagan	Created document

1.0 Purpose:

1.1 To assess the postnatal viability, sub-viability, and lethality of homozygous mice during cohort production.

2.0 Scope:

2.1 Individuals who have been trained and are competent in performing the procedures described herein must follow this procedure.

3.0 Safety Requirements:

3.1 General laboratory procedures should be followed, which include prohibition of eating, chewing gum, drinking, and applying of cosmetics in the work area. Laboratory coats and gloves must be worn at all times in the work area, unless the protocol specifically describes the appropriate attire for the procedure.

4.0 Associated Documents:

5.0 Notes:

5.1 All genotypes should be collected using validated assays.

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6.0 Quality Control:

7.0 Equipment:

8.0 Supplies:

9.0 Procedure:

9.1 Monitor pup number, genotypes and sex ratios of Het X Het intercrosses set to generate cohorts for phenotyping. Score at least 28 pups when genotyped.

9.2 Identify strains that produce no homozygous/hemizygous male or female pups.

9.2.1 Strains that produce NO homozygous pups will be considered LETHAL

9.2.2 X-linked strains that produce NO hemizygous male pups and NO female homozygous pups will be considered LETHAL

9.3 Identify strains that produce less than normal numbers of homozygous/hemizygous male or female pups.

9.3.1 Strains that produce <50% expected (#total pups * 0.125 (3 for 28) (4 for 29-36) (5 for 37-52)) homozygous pups will be considered SUBVIABLE

9.3.1 X-linked strains that produce <50% expected (#total pups * 0.125 (3 for 28) (4 for 29-36) (5 for 37-52)) hemizygous male pups and female homozygous pups will be considered SUBVIABLE

9.4 For lethal and subviable strains, heterozygous progeny will be sent for adult phenotyping.

Parameters and Metadata

Outcome ESLIM_023_001_001 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** true **Is Annotated:** false

Description: outcome

Options: Homozygous - Viable, Homozygous - Lethal, Homozygous - Subviable, Homozygous - Reduced Life Span,

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Number of WT ESLIM_023_001_002 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Description: number_of_wt

Number of Heterozygous ESLIM_023_001_003 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Description: number_of_heterozygous

Age to survival ESLIM_023_001_004 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Description: age_to_survival

Description ESLIM_023_001_005 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Description: description

Number of Homozygous ESLIM_023_001_006 | v1.0

simpleParameter

Req. Analysis: false **Req. Upload:** false **Is Annotated:** false

Description: number_of_homozygous
