

Front-page summary statements for outgoing lab reports from the long-term extractions, as of 09/15/2023. These statements have not been cleared were intended for internal use only.

Summary statements

Sample 6

For all small beads tested, extracted acrylamide (μg) increased from 5 minutes to 5.5 hours (except for S3 which increased from 5 minutes to 2 hours and decreased from 2 to 5.5 hours), decreased from 5.5 to 24 hours, increased from 24 to 48 hours, and then decreased from 48 to 165.5 hours. Of each individual time interval, for all small beads, the most acrylamide (μg) was found at the end of the 48-hour interval.

For all large beads tested, extracted acrylamide (μg) increased from 5 minutes to 2 hours, decreased from 2 to 24 hours, increased from 24 to 48 hours, then decreased from 48 to 165.5 hours. Of each individual time interval, for all large beads, the most acrylamide (μg) was found at the end of the 2-hour stomach acid extraction.

The highest amount of acrylamide found at any one time interval was 0.343 μg for one small bead trial (S2), measured at the end the 48-hour small intestine fluid extraction

Small: all three highest at 48.

Large: all three highest at 2.

Sample 4

For all beads tested, at most of the time intervals, acrylamide concentrations >1 ppb were found in each extraction solution. The exceptions were two medium beads (M1, M2), where the acrylamide concentration was <1 ppb at the 165.5-hour interval.

For most of the beads tested, the extracted acrylamide (μg) increased from 5 minutes to 2 hours, decreased from 2 to 24 hours, increased from 24 to 48 hours, and then decreased from 48 to 165.5 hours. Of each individual time interval, for all of the beads, the most acrylamide (μg) was found at the end of the 2-hour interval.

The highest amount of acrylamide found at any one time interval was 1611.54 μg for one large soft bead (F2), measured at the end the 2-hour stomach acid extraction.

Medium: all three highest at 2.

Soft: all three highest at 2.

Sample 3

For all beads tested, at most of the time intervals, acrylamide concentrations >1 ppb were found in each extraction solution. The exceptions were one medium bead (M1), where the acrylamide

concentration was <1 ppb at the 165.5-hour interval, and one large bead (L1), where the extracted acrylamide concentration was <1 ppb at the 18-hour and 165.5-hour intervals.

For most of the beads tested, the extracted acrylamide (μg) increased from 5 minutes to 2 hours, decreased from 2 to 24 hours, increased from 24 to 48 hours, and then decreased from 48 to 165.5 hours. Of each individual time interval, for all of the beads, the most acrylamide (μg) was found at the end of the 2-hour interval.

The highest amount of acrylamide found at any one time interval was 4.79 μg for one large bead, measured at the end the 2-hour stomach acid extraction.

Small: all three highest at 2.

Large: all three highest at 2.

Sample 5

For all small beads tested, extracted acrylamide (μg) increased from 5 minutes to 5.5 hours, decreased from 5.5 to 24 hours, increased from 24 to 48 hours, and then decreased from 48 to 165.5 hours. Of each individual time interval, for all small beads, the most acrylamide (μg) was found at the end of the 48-hour interval.

For all large beads tested extracted acrylamide (μg) increased from 5 minutes to 2 hours, decreased from 2 to 24 hours, increased from 24 to 48 hours, then decreased from 48 to 165.5 hours. Of each individual time interval, for all large beads, the most acrylamide (μg) was found at the end of the 2-hour stomach acid extraction

The highest amount of acrylamide found at any one time interval was 8.863 μg for one large hard bead (L3), measured at the end the 2-hour stomach acid extraction.

Small: all three highest at 48.

Large: all three highest at 2.

Sample 12

For all beads tested, at all time intervals, acrylamide concentrations >1 ppb were found in each extraction solution.

For all beads tested, the extracted acrylamide (μg) increased from 5 minutes to 6 hours, and then decreased from 6 to 48 hours. Of each individual time interval, for all of the beads, the most acrylamide (μg) was found at the end of the 6-hour extraction in simulated small intestine fluid.

The highest amount of acrylamide found at any one time interval was 0.528 μg for one trial of medium beads (M2), measured at the end the 6-hour extraction in simulated small intestine fluid.

Medium: all three highest at 6.

Sample 13

For all beads tested, at all time intervals, acrylamide concentrations >1 ppb were found in each extraction solution.

For all beads tested, the extracted acrylamide (μg) increased from 5 minutes to 6 hours, and then decreased from 6 to 48 hours. Of each individual time interval, for all of the beads, the most acrylamide (μg) was found at the end of the 6-hour extraction in simulated small intestine fluid.

The highest amount of acrylamide found at any one time interval was 1.386 μg for one trial of medium beads (M1), measured at the end the 6-hour extraction in simulated small intestine fluid.

Medium: all three highest at 6.

Sample 14

For all three sets of small beads tested, acrylamide concentrations >1 ppb were found in each extraction solution at all time intervals.

For all three sets of small beads tested, the extracted acrylamide (μg) found increased from 5-6 minutes to 2 hours to 6 hours and then decreased from 6 hours to 24 hours to 48 hours. At 48 hours the extraction was stopped. The most acrylamide (μg) was found at the end of the 6-hour interval.

The highest amount of acrylamide found at any one time interval was 21.971 μg , measured at the end of the 6-hour interval.

Small: all three highest at 6.

Sample 9

Results for multi-stage, long term extractions, *small* beads:

For all three sets of small beads tested, acrylamide concentrations >1 ppb were found in each extraction solution at all time intervals.

For all three sets of small beads tested, the extracted acrylamide (μg) found increased from 5-6 minutes to 2 hours to 5.5 hours, decreased from 5.5 hours to 24 hours, increased from 24 hours to 48 hours, and decreased from 48 hours to 72 hours to 165.5 hours. The most acrylamide (μg) was found at the end of the 48-hour interval.

The highest amount of acrylamide found at any one time interval was 8.871 μg , measured at the end of the 48-hour interval.

Results for multi-stage, long term extraction, *large* beads:

For all three large beads tested, at each of the time intervals, acrylamide concentrations >1 ppb were found in each extraction solution.

For each of the three large beads tested, the extracted acrylamide (μg) found increased from 6-7 minutes to 2 hours, decreased from 2 hours to 6 hours to 24 hours, increased from 24 hours to 48

hours, and then decreased from 48 hours to 72 hours to 165.5 hours. The most acrylamide (μg) was found at the end of the 2-hour interval.

The highest amount of acrylamide found at any one time interval was 6.507 μg for one large bead, measured at the end of the 2-hour interval.

Small: all three highest at 48.

Large: all three highest at 2.

Sample 7

For all three sets of beads tested, at all of the time intervals, acrylamide concentrations >1 ppb were found in each extraction solution.

For all three sets of beads tested, the extracted acrylamide (μg) found increased from 7-9 minutes to 2 hours, decreased from 2 hours to 5.5 hours to 24 hours, increased from 24 hours to 48 hours, and then decreased from 48 hours to 72 hours to 165.5 hours. For two sets of beads tested, the highest amount of acrylamide was found at the end of the 48-hour interval. For the third set, the highest amount of acrylamide was found at the end of the 2-hour interval.

The highest amount of acrylamide found at any one time interval was 0.237 μg for a set of small beads, measured at the end of the 2-hour interval.

Small: two highest at 48, one highest at 2

Sample 8

For all three sets of beads tested, at all of the time intervals, acrylamide concentrations >1 ppb were found in each extraction solution.

For all three sets of beads tested, the extracted acrylamide (μg) found increased from 8-9 minutes to 2 hours, decreased from 2 hours to 5.5 hours to 24 hours, increased from 24 hours to 48 hours, and then decreased from 48 hours to 72 hours to 165.5 hours. For all three of the sets of beads tested, the most acrylamide (μg) was found at the end of the 2-hour interval.

The highest amount of acrylamide found at any one time interval was 0.478 μg for a set of medium beads, measured at the end of the 2-hour interval.

Medium: all three highest at 2.

Sample 2

For all three sets of small beads tested, and all three sets of medium beads tested, acrylamide concentrations >1 ppb were found in each extraction solution at all time intervals. For all three large beads tested, acrylamide concentrations >1 ppb were found in each extraction solution at each time interval, with the exception of two large beads that had acrylamide concentration <1 ppb at the last time interval, 165.5 hours.

For the three sets of small beads, the extracted acrylamide (μg) found increased from 5 minutes to 2 hours, decreased from 2 hours to 6 hours to 24 hours, increased from 24 hours to 48 hours, and then decreased from 48 hours to 72 hours to 165.5 hours.

For all three sets of medium beads, the extracted acrylamide (μg) found increased from 5 minutes to 2 hours to 6 hours, decreased from 6 hours to 24 hours, increased from 24 hours to 48 hours, and then decreased from 48 hours to 72 hours to 165.5 hours.

For all three large beads, the extracted acrylamide (μg) found increased from 5 minutes to 2 hours, decreased from 2 hours to 6 hours to 24 hours, increased from 24 hours to 48 hours, and then decreased from 48 hours to 72 hours to 165.5 hours.

The highest amount of acrylamide found at any one time interval was 3.799 μg for one large bead, measured at the end of the 2-hour stomach acid extraction.

Small: all three highest at 2

Medium: all three highest at 6

Large: all three highest at 2

Sample 1

Results for multi-stage, long term extractions, small beads:

For all three sets of small beads tested, acrylamide concentrations >1 ppb were found in each extraction solution after 5 minutes and 2 hours. At the 6 hour, 24 hour, 48 hour, 72, and 165.5 hour time intervals, acrylamide concentrations were <1 ppb.

For two sets of small beads tested, the extracted acrylamide (μg) decreased from 5 minutes to 2 hours. For one set of small beads where the extracted acrylamide increased from 5 minutes to 2 hours. For all intervals after 2 hours, the acrylamide peak was below that of the lowest standard (1 ppb).

The highest amount of acrylamide found at any one time interval was 0.005 μg , measured at the end of the 5 minute interval.

Results for multi-stage, long term extraction, large beads:

For all three large beads tested, at each of the time intervals, acrylamide concentrations >1 ppb were found in each extraction solution.

For each of the three large beads tested, the extracted acrylamide (μg) found increased from 5 minutes to 2 hours, decreased from 2 hours to 6 hours to 24 hours, increased from 24 hours to 48 hours, and then decreased from 48 hours to 72 hours to 165.5 hours. The most acrylamide (μg) was found at the end of the 2-hour interval.

The highest amount of acrylamide found at any one time interval was 14.478 μg for one large bead, measured at the end of the 2-hour stomach acid extraction.

Small: two highest at 5 min, one highest at 2

Large: all three highest at 2

Sample 16

For all three beads tested, at all of the time intervals, acrylamide concentrations >1 ppb were found in each extraction solution.

For all three beads tested, the extracted acrylamide (μg) increased from 5 minutes to 2 hours and then began decreasing starting after the two-hour extraction. Accordingly, of each individual time interval, the most acrylamide (μg) was found at the end of the 2-hour interval for each of the three beads.

The highest amount of acrylamide found at any one time interval was 1714.72 μg for one bead, measured at the end of the 2-hour stomach acid extraction.

Soft: all three highest at 2

Sample 15

For all beads tested, at most of the time intervals, acrylamide concentrations >1 ppb were found in each extraction solution. The one exception was with one large bead, where the acrylamide concentration was <1 ppb at the 168 hour interval.

For most of the beads tested, the extracted acrylamide (μg) increased from 5 minutes to 2 hours and then began decreasing starting after the two-hour extraction. Accordingly, of each individual time interval, for most of the beads, the most acrylamide (μg) was found at the end of the 2-hour interval. The one exception was with one large bead, where the most acrylamide (μg) was found at the end of the 24-hour interval.

The highest amount of acrylamide found at any one time interval was 8.73 μg for one large bead, measured at the end of the 2-hour stomach acid extraction

Small: all three highest at 2

Medium: all three highest at 2

Large: two highest at 2, one highest at 24