**Supplementary Material 3.** AstA-induced release of digestive enzymes.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Species** | **amylase** | **invertase** | **protease** | **references** |
| cockroaches | + | + | + | (Fusé et al., 1999; Aguilar et al., 2003; Sakai et al., 2006; Matsui et al., 2013) |
| crickets | + |  | + | (Woodring et al., 2009) |
| moths | +/- |  | +/- | (Lwalaba et al., 2010; Nakhaie Bahrami et al., 2018) |

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