Supplementary Table 1. Sampling information of *S. fucifera* collected in Asia (2012, 2013, and 2014).

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| --- | --- | --- | --- | --- |
| Country | Sampling name | Sampling Site | Sampling Date | Coordinates |
| Bangladesh | B1 | Dobila,Tarash, Sirajgonj | May 10, 2012 | N24°23'45.0",E89°22'39.7" |
| 　 | B2 | Ghargram,Tarash, Sirajgonj | May 10, 2012 | N24°23'3.28",E89°21'59.97" |
| 　 | B3 | BRRI R/S, Gazipur | Nov. 07, 2012 | N23°59'33.43",E90°24'27.12" |
| 　 | B4 | Sagordi,Barisal | Nov. 20, 2012 | N22°41'38.43",E90°20'39.29" |
| Vietnam | V | Nam Dinh, Hai Loc | Sept. 28, 2012 | N20°10'55.85",E106°20'7.79" |
| Thailand | TH | Chiang Rai (Research Field) | Mar. 22, 2012 | N19°50'08.5",E99°44'43.9" |
| Nepal | NE | Padariya, Chitwan | Oct. 17, 2012 | N27°35'45.1",E84°30'55.5"  |
| Korea | SA1 | Jeonlabuk-do Shinangeun | July – August, 2012 | N34°45'20.8",E126°07'34.0" |
| Laos | LA | Vientiane,Phontong | Aug. 11, 2012 | N18°30'39.0",E102°25'05.7" |
| Korea | JC | Jaecheonshi, Chungcheongbuk-do | Sept. 10, 2013 | N37°09'44.5",E128°10'32.9" |
|  | TA | Taeangeun, Chungcheongnam-do | July 10, 2013　 | N36°45'19.0",E126°20'40.5" |
| 　 | BA | Buangeun, Jeonlabuk-do | Sept. 2, 2013　 | N35°44‘33.3",E126°40‘51.9" |
| 　 | JS | Jangsoogeun, Jeonlabuk-do | July, 6-12, 2013　 | N35°38'05.1",E127°30'47.1" |
| 　 | GR | Guryegeun, Jeonlanam-do | Sept. 5, 2013　 | N35°11'51.29",E127°27'38.04" |
| 　 | JD | Jindogeun, Jeonlanam-do | July 6-21, 2013　 | N34°32'51.6",E126°18'17.3" |
|  | SA2 | Shinangeun, Jeonlanam-do | July 6-12, 2013 | N34°45'20.8",E126°07'34.0" |
| 　 | WD | Wandoguen, Jeonlanam-do | July 15-23, 2013　 | N34°18'53.92",E126°44'51.76" |
|  | CW | Cheolwongeun, Gangwon-do | Sept. 6, 2013　 | N38°13'15.4",E127°15'01.2" |
| 　 | KP | Kimposhi, Kyunggi-do | Sept. 6, 2013　 | N37°42'26.1",E126°33'18.4" |
| 　 | NYJ | Namyangjooshi, Kyunggi-do | July, 2013 | N37°38'55.0",E127°11'45.4" |
| 　 | CG | Chilgokgeun, Kyungsangbuk-do | August, 2013　 | N36°2'22.68",E128°22'56.26" |
| 　 | CN | Changnyunggeun, Kyungsangnam-do | July – August, 2013　 | N35°33'04.3",E128°28'40.2" |
| 　 | GS | Gosungguen, Kyungsangnam-do | July 22-28, 2013　 | N34°58'40.1",E128°18'59.9" |
| 　 | MY | Milyangshi, Kyungsangnam-do | July – August, 2013　 | N35°26'47.79",E128°45'23.49" |
| Bangladesh | B5 | BRRI R/S, Gazipur | April 23, 2013 | N23°59'09.7",E90°24'41.3" |
|  | B6 | BRRI R/S, Gazipur | Sept. 1-7, 2013　 | N23°59'09.7",E90°24'41.3" |
| China | CH | Pyeongdam agriculture Center, Guangdong | June 8, 2013 | N23°02'25.1",E114°35'30.0" |
| Nepal | NE | Padariya, Chitwan | Oct. 23, 2013　 | N27°35'45.1",E84°30'55.5" |
| Thailand | TH | Chiang Rai (Research Field) | April 5, 2013 | N19°50'08.5",E99°44'43.9" |
| Korea　　　　　　　 | JC | Jaecheonshi, Chungcheongbuk-do | July 19-26, 2014 | N37°09'44.5",E128°10'32.9" |
| TA | Taeangeun, Chungcheongnam-do | July 26, 2014　 | N36°45'19.0",E126°20'40.5" |
| BA | Buangeun, Jeonlabuk-do | July 24, 2014　 | N35°43'47.7",E126°43'09.6" |
| SA3 | Shinangeun, Jeonlanam-do | July 7-11, 2014 | N34°45'20.8",E126°07'34.0" |
| WD | Wandoguen, Jeonlanam-do | July 21-25, 2014　 | N34°18'53.92",E126°44'51.76" |
| CW | Cheolwongeun, Gangwon-do | Aug. 4, 2014　 | N38°13'15.4",E127°15'01.2" |
| KP | Kimposhi, Kyunggi-do | Aug. 1, 2014　 | N37°42'26.1",E126°33'18.4" |
| NYJ | Namyangjooshi, Kyunggi-do | July 28, 2014 | N37°38'55.0",E127°11'45.4" |
| GS | Gosungguen, Kyungsangnam-do | July 14-18, 2014　 | N34°58'40.1",E128°18'59.9" |
| MY | Milyangshi, Kyungsangnam-do | July 23, 2014 | N35°26'47.79",E128°45'23.49" |
| China | CH1 | Lingchuan, Guilin, Guangxi | June 30,2014 | N25°27'37.2",E110°16'50.6" |
| CH2 | Huiyang, Huizhou, Guangdong | July 2, 2014 | N23°03'17.4",E114°35'17.7" |
| CH3 | Boluo Xian, Huizhou Shi, Guangdong Sheng | July 3, 2014 | N23°11'37.1",E114°21'45.9" |
| CH4 | Baiyun Qu, Guangzhou Shi, Guangdong Sheng | July 3, 2014 | N23°20'03.4",E113°11'08.9" |